

## **U.S. ARMY**

# SMALL BUSINESS INNOVATION RESEARCH PROGRAM (SBIR)

# MISSION OBJECTIVES AND POINTS OF CONTACT

NOTE: THIS DOCUMENT WAS COMPILED AS A SOURCE OF INFORMATION FOR SMALL BUSINESSES INTERESTED IN PARTICIPATING IN THE ARMY SBIR PROGRAM. DATA IN THIS DOCUMENT WAS COMPILED FROM PUBLIC SOURCES AND AS SUCH, DISTRIBUTION IS UNLIMITED

EDITED BY ARO-WASHINGTON: CREDIT TO MR. OTHO H. THOMAS, JR, MS. KATHY HERRING, AND MS. JANE R. GREER FOR THIS DOCUMENT'S INCEPTION AND GROWTH OVER THE YEARS.

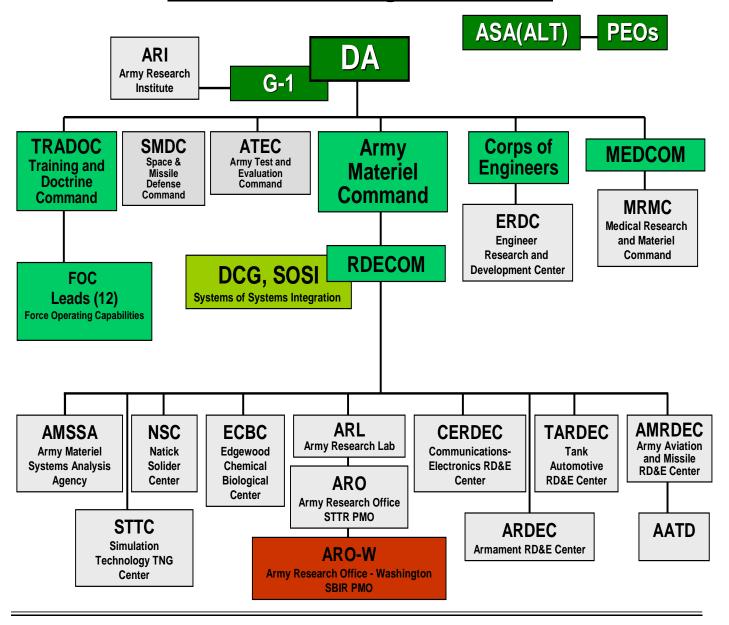
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# **ARMY R&D Organizations**



# I. ARMAMENTS, RESEARCH, DEVELOPMENT AND ENGINEERING CENTER (ARDEC), PICATINNY ARSENAL, NJ

SBIR POC: CAROL L'HOMMEDIEU, 973-724-4029, clhommed@pica.army.mil

MISSION: ARDEC'S OVERALL MISSION IS TO IMPROVE ALREADY FIELDED ITEMS, DEVELOP NEW ONES, MAINTAIN A STRONG ARMAMENT TECHNOLOGY BASE IN GOVERNMENT, INDUSTRY, AND ACADEMIA AND PROVIDE TECHNICAL SUPPORT TO THE SOLDIER IN THE FIELD. IN THIS WAY, THE CENTER ACHIEVES ITS VISION OF "PROVIDING AMERICA ADVANCED ARMAMENTS FOR PEACE AND WAR."

### **OBJECTIVES:**

- PROVIDE OVERWHELMING FIREPOWER FOR DECISIVE VICTORY, MAINTAIN STRONG ARMAMENT TECHNOLOGY BASE IN GOVERNMENT, INDUSTRY AND ACADEMIA, PROVIDING TECHNICAL SUPPORT TO THE SOLDIER IN THE FIELD
- RESEARCH, DEVELOPMENT, ACQUISITION AND SUSTAINMENT OF CURRENT AND FUTURE
  ARMAMENTS AND MUNITIONS SYSTMS, FIRE CONTROL, POLLUTION PREVENTION AND RELATED
  TECHNOLOGIES, PLAYING KEY ROLE IN ARMY TRANSFORMATION, DEVELOPMENT OF SOLDIER AND
  FUTURE COMBAT SYSTEMS, ANDD THE DEVELOPMENT OF ADVANCED WEAPONS THAT EXPLOIT
  PERTINENT TECHNOLOGIES
- CONDUCT OR MANAGE RESEARCH, DEVELOPMENT AND LIFE CYCLE ENGINEERING, INCLUDING PRODUCT ASSURANCE, ENGINEERING IN SUPPORT OF ITEMS IN PRODUCTION AND INTEGRATED LOGISTICS SUPPORT FOR ASSIGNED ARMAMENT, MUNITIONS SYSTEMS AND MATERIELS
- PROVIDE PROCUREMENT AND MANAGEMENT OF INITIAL PRODUCTION QUANTITIES AND TECHNICAL SUPPORT TO SOLDIERS AND EQUIPMENT IN THE FIELD
- MAINTAIN A TECHNOLOGY BASE TO FACILITATE THE DESIGN, DEVELOPMENT, PROCUREMENT, PRODUCTION AND LIFE-CYCLE SUPPORT OF ASSIGNED MATERIEL OR TRANSITIONED TECHNOLOGIES

### AREAS OF INTEREST: TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- SMART MUNITIONS
- ARMAMENT DECISION AIDS
- LIGHT FIGHTER LETHALITY
- EFP WARHEADS/SHAPED CHARGES
- MULTI ROLE MAIN ARMAMENT LAUNCHER/SWING CHAMBER
- CANNON WITH CTA (CASED TELESCOPED AMMUNITION)
- MULTI ROLE MAIN ARMAMENT MOUNT & RECOIL/FIRE OUT OF BATTERY
- ARTILLERY & MORTARS
- SIMULATION & MODELING
- MINES & DEMOLITIONS
- ADVANCED PROPULSION SYSTEMS
- FIRE CONTROL & SOFTWARE ENGINEERING
- EXPLOSIVE ORDNANCE DISPOSAL
- SMALL & CANNON CALIBER WEAPONS & AMMO
- ANTI-ARMOR WEAPONS
- TANK AMMUNITION
- ENERGETIC MATERIALS
- FUZING/LETHAL MECHANISMS
- MUNITIONS PACKAGING
- ENVIRONMENTAL R&D
- NON-LETHAL WEAPONS
- NON-DESTRUCTIVE INSPECTION

### II. ARMY RESEARCH INSTITUTE FOR THE BEHAVIORAL AND SOCIAL SCIENCE (ARI), ARLINGTON, VA

SBIR POC: PETER LEGREE, 703-602-7816, peter.legree@ari.army.mil

**MISSION:** ARI'S MISSION IS TO MAXIMIZE INDIVIDUAL AND UNIT PERFORMANCE AND READINESS TO MEET THE FULL RANGE OF U.S. ARMY OPERATIONS THROUGH ADVANCES IN THE BEHAVIORAL AND SOCIAL SCIENCES.

### **OBJECTIVES:**

- ARI IS THE ARMY'S PRIMARY LABORATORY CONDUCTING RESEARCH AND ANALYSIS ON
  PERSONNEL PERFORMANCE AND TRAINING. OUR FOCUS IS ON THE HUMAN ELEMENT IN THE ARMY.
  OUR RESEARCH AND ANALYSIS CONTRIBUTES TO THE ENTIRE LIFE CYCLE OF RECRUITING,
  SELECTION, ASSIGNMENT, TRAINING, AND MISSION PERFORMANCE. ARI:
  - o PROVIDES NEW TECHNOLOGY TO MEET THE PERSONNEL AND TRAINING CHALLENGES OF THE ARMY
  - o CONDUCTS STUDIES AND ANALYSES TO ADDRESS SHORT-TERM ISSUES AND RESPOND TO EMERGING "HOT TOPICS"
  - o PROVIDES TECHNICAL ASSISTANCE ON CRITICAL ISSUES AFFECTING ALL PARTS OF THE ARMY—THE ORGANIZATION, THE PEOPLE, AND THE TECHNOLOGIES FOR THE FUTURE
- ARI'S PROGRAMS SUPPORT THREE OF THE ARMY'S IMPERATIVES: QUALITY PEOPLE, LEADER DEVELOPMENT, AND TRAINING.

- MAXIMIZE COMBAT EFFECTIVENESS THROUGH TIMELY RESEARCH IN THE ACCESSION, TRAINING, RETENTION AND PERFORMANCE OF SOLDIERS
- SUPPORT DECISION MAKING BY ARMY LEADERS THROUGH PERSONNEL PERFORMANCE AND TRAINING RDTE PROGRAMS

### III. ARMY RESEARCH LABORATORY (ARL), ADELPHI, MD

SBIR POC: DEAN HUDSON, 301-394-4808, dhudson@arl.army.mil

### A. HUMAN RESEARCH AND ENGINEERING DIRECTORATE (HRED), ABERDEEN PROVING GROUND, MD

POC: JOANNE SISSUM, 410-278-5815, jsissum@arl.army.mil

MISSION: THE HUMAN RESEARCH AND ENGINEERING DIRECTORATE'S (HRED) MISSION IS TO OPTIMIZE SOLDIER EFFECTIVENESS AND SOLDIER-MACHINE INTERACTIONS AND TO ENSURE THAT FUTURE SYSTEM DESIGNS WILL ENABLE OUR SOLDIERS TO ACHIEVE MAXIMUM PERFORMANCE. TO FULFILL THIS MISSION, HRED CONDUCTS BROAD-BASED SCIENTIFIC RESEARCH AND TECHNOLOGY APPLICATION AND PROVIDES LEADERSHIP IN HUMAN FACTORS INTEGRATION AND SUPPORT TO MANPRINT.

### AREAS OF INTEREST:

- SOLDIER PERFORMANCE
- HUMAN FACTORS
- SOLDIER INFORMATION (DISPLAYS, INTERFACES, SIMULATIONS)

### B. SENSORS & ELECTRON DEVICES DIRECTORATE (SEDD), ADELPHI, MD

POC: DEAN HUDSON, 301-394-4808, dhudson@arl.army.mil

MISSION: THE SENSORS AND ELECTRON DEVICES DIRECTORATE (SEDD) WORKS IN MANY AREAS CRUCIAL TO THE SUCCESS OF THE FUTURE ARMY, PROVIDING FUNDAMENTAL RESEARCH TO GIVE COMMANDERS REAL-TIME SITUATIONAL AWARENESS; RAPID AND PRECISE DISCRIMINATION AND TARGETING; HIGHLY COMPACT, LIGHTWEIGHT ENERGY SOURCES; AS WELL AS MITIGATING TECHNIQUES FOR USE AGAINST HOSTILE ENEMY THREATS.

### **AREAS OF INTEREST:**

- DIRECTED ENERGY AND POWER (BATTERIES)
- ELECTRO-OPTICS AND PHOTONICS (LASERS)
- RF & ELECTRONICS (CHIPS & DEVICES)
- SIGNAL & IMAGE PROCESSING (RADAR)
- LOW OBSERVABLE TECHNOLOGY

# C. SURVIVABILITY/LETHALITY ANALYSIS DIRECTORATE (SLAD), WHITE SANDS, NM & ABERDEEN PROVING GROUND, MD

POC: CHERI HARDIN, 410-278-9348, chardin@arl.army.mil

MISSION: ON THE FUTURE BATTLEFIELD, THE SOLDIER WILL FACE AN ARRAY OF THREATS FROM THE CONVENTIONAL, ELECTRONIC, AND ELECTROMAGNETIC TO THE NUCLEAR, BIOLOGICAL, CHEMICAL, AND ENVIRONMENTAL. THE SURVIVABILITY & LETHALITY ANALYSIS DIRECTORATE (SLAD) DEVELOPS AND CONDUCTS VULNERABILITY AND LETHALITY ASSESSMENTS OF ARMY TECHNOLOGIES AND SYSTEMS AND PROVIDES RECOMMENDATIONS AND TECHNICAL EXPERTISE TO REDUCE OR ELIMINATE VULNERABILITIES AND TO IMPROVE EFFECTIVENESS.

- SYSTEMS SURVIVABILITY/LETHALITY
- BALLISTIC VULNERABILITY/LETHALITY
- CHEM-BIO & NUCLEAR EFFECTS
- ELECTRONIC WARFARE
- INFORMATION OPERATIONS

### III. ARMY RESEARCH LABORATORY (ARL), ADELPHI, MD (CONTINUED)

SBIR POC: DEAN HUDSON, 301-394-4808, dhudson@arl.armv.mil

### D. WEAPONS & MATERIALS RESEARCH DIRECTORATE (WMRD), ABERDEEN PROVING GROUND, MD

POC: RICH DIMMICK, 410-278-6955, dimmick@arl.army.mil

MISSION: WITH ITS EXPERTISE IN BALLISTICS, MATERIALS, AND WEAPONS TECHNOLOGIES, THE WEAPONS AND MATERIALS RESEARCH DIRECTORATE (WMRD) SUPPORTS THE ARMY ACROSS THE SPECTRUM. IT PROVIDES THE ARMY TECHNOLOGIES THAT WILL MAKE THE INDIVIDUAL SOLDIER AS WELL AS FUTURE WEAPONS SYSTEMS MORE LETHAL, SURVIVABLE, AND STRATEGICALLY DEPLOYABLE.

### **AREAS OF INTEREST:**

- MATERIALS (CERAMICS, METALS, POLYMERS, COMPOSITES, NANOMATERIALS, ETC)
- TERMINAL EFFECTS (BALLISTICS)
- BALLISTIC PROPULSION AND FLIGHT TECHNOLOGY
- WEAPONS TECHNOLOGY (LETHAL AND NON-LETHAL)

# E. COMPUTATIONAL & INFORMATION SCIENCES DIRECTORATE (CISD), ABERDEEN PROVING GROUND & ADELPHI, MD

POC: DEAN HUDSON, 301-394-4808, dhudson@arl.army.mil

MISSION: THE U.S. ARMY RESEARCH LABORATORY (ARL) COMPUTATIONAL AND INFORMATION SCIENCES DIRECTORATE (CISD) PLAYS A KEY ROLE IN INFORMATION SCIENCES AND TECHNOLOGY RESEARCH WITHIN THE ARMY AND THE DEPARTMENT OF DEFENSE (DOD). WITH A RESEARCH MISSION FOCUSED ON BATTLEFIELD COMMUNICATIONS AND NETWORKS, DATA FUSION AND KNOWLEDGE MANAGEMENT, BATTLESPACE WEATHER AND ENVIRONMENTAL EFFECTS, AND COMPUTATIONAL SCIENCE AND ENGINEERING, CISD IS POISED TO PROVIDE THE ARMY WITH THE NECESSARY ADVANCES IN INFORMATION TECHNOLOGY TO TRANSITION TO THE ARMY OBJECTIVE FORCE.

THE CISD MISSION AREAS INCLUDE THE OPERATION OF THE ARL DOD MAJOR SHARED RESOURCE CENTER (MSRC), THE ARMY HIGH PERFORMANCE COMPUTING RESEARCH CENTER (AHPCRC), AND THE ARL FEDERATED LABORATORY CONSORTIA FOR TELECOMMUNICATIONS AND FOR ADVANCED DISPLAYS. THE DIRECTORATE WORKS CLOSELY WITH MANY ACADEMIC, INDUSTRY, AND GOVERNMENT PARTNERS TO ACCOMPLISH ITS MISSION.

- AUTOMATION RESOURCES
- ENTERPRISE SYSTEMS
- HIGH PERFORMANCE COMPUTING
- COMPUTER SYSTEMS TECHNOLOGY (SOFTWARE TECHNOLOGY, INTEL SYSTEMS)
- COMMUNICATION AND NETWORK SYSTEMS (INFORMATION DISTRIBUTION)
- BATTLEFIELD ENVIRONMENT (WEATHER/METEROROLOGY)

### III. ARMY RESEARCH LABORATORY (ARL), ADELPHI, MD (CONTINUED)

SBIR POC: DEAN HUDSON, 301-394-4808, dhudson@arl.army.mil

### F. VEHICLE TECHNOLOGY DIRECTORATE (VTD)

MISSION: THE VEHICLE TECHNOLOGY DIRECTORATE (VTD) DEVELOPS THE TECHNOLOGIES NEEDED TO EXTEND THE LIFE OF CURRENT COMBAT VEHICLES, PROVIDE COMPONENTS FOR FUTURE SYSTEMS, AND SHORTEN THE DESIGN AND DEVELOPMENT CYCLE BY ENABLING FLEXIBLE, AFFORDABLE MANUFACTURE OF THE NEXT GENERATION OF EQUIPMENT. VTD IS FOCUSING ITS RESEARCH TOWARDS DEVELOPMENT OF LIGHTER, FASTER, AND MORE FUEL-EFFICIENT VEHICLES.

1. VEHICLE PROPULSION, NASA GLENN RESEARCH CENTER, CLEVELAND, OH POC: PETER MEITNER, 216-433-3715, p.l.meitner@grc.nasa.gov

### AREAS OF INTEREST:

- ENGINE COMPONENTS
- ENGINE AND TRANSMISSION SYSTEMS

### IV. ARMY RESEARCH OFFICE (ARO), RESEARCH TRIANGLE PARK, NC

SBIR POC: DR. ROGER K. CANNON, 919-549-4278, roger.k.cannon@us.army.mil

MISSION: THE U.S. ARMY RESEARCH OFFICE (ARO) MISSION IS TO SEED SCIENTIFIC AND FAR REACHING TECHNOLOGICAL DISCOVERIES THAT ENHANCE ARMY CAPABILITIES. BASIC RESEARCH PROPOSALS FROM EDUCATIONAL INSTITUTIONS, NONPROFIT ORGANIZATIONS, AND PRIVATE INDUSTRY ARE COMPETITIVELY SELECTED AND FUNDED. ARO'S RESEARCH MISSION REPRESENTS THE MOST LONG-RANGE ARMY VIEW FOR CHANGES IN ITS TECHNOLOGY. IT IS THE ONLY ARMY ORGANIZATION THAT TRANSCENDS ALL OF ITS MISSION AREAS: COMMANDER-FIRE SUPPORT; CLOSE COMBAT; AIR DEFENSE; COMBAT SUPPORT; COMBAT SERVICE SUPPORT; SOLIDER SUPPORT; COMMAND, CONTROL, AND COMMUNICATIONS. IN ALL RESPECTS, THE ARO PROGRAM IS THE DESIGNATED ORGANIZATION FOR THE ENTIRE SPECTRUM OF ARMY ACTIVITIES EXTENDING FROM RESEARCH TO DEVELOPMENT TO ACQUISITION. ARO PRIORITIES FULLY INTEGRATE ARMY-WIDE, LONG-RANGE PLANNING FOR RESEARCH, DEVELOPMENT, AND ACQUISITION.

THE ROOTS OF RESEARCH ARE IN THE SCIENTIFIC AND ENGINEERING DISCIPLINES, NAMELY AERONAUTICS, BIOLOGY, CHEMISTRY, ELECTRONICS, GEOSCIENCES, MATHEMATICS, MECHANICS, METALLURGY, PHYSICS, AND SO ON. MANY INNOVATIONS ARE A DIRECT RESULT OF FUNDAMENTAL CHANGES IN THIS SCIENCE BASE. IN RECOGNITION OF THESE ROOTS, THE ARO PROGRAM IS ORGANIZED ALONG SCIENTIFIC DISCIPLINARY LINES. THIS IS THE NATURAL WAY IN WHICH THE RESIDENT NATIONAL TALENT BASE INTERFACES WITH THE ARMY.

### A. CHEMISTRY AREAS OF INTEREST:

- ELASTOMERS FOR SOLDIER PROTECTION AND ARMY MATERIEL
- ELECTROCHEMMISTRY AND POWER SOURCES
- OXIDATION
- ORGANIZED MEDIA AND ORANIC CHEMISTRY FOR THREAT AGENT DECONTAMINATION
- SURFACES & CATALYSIS
- FAST REACTION KINETICS AND ENERGETIC MATERIALS
- NOVEL MOLECULES FOR ADVANCED ARMY MATERIEL

### B. COMPUTING AND INFORMATION SCIENCES AREAS OF INTEREST:

- SYSTEMS AND CONTROLS
- SOFTWARE AND KNOWLEDGE-BASED SYSTEMS
- COMMUNICATIONS AND NETWORKS
- INFO PROCESSING/FUSION AND CIRCUITS
- INFORMATION ASSURANCE

### C. ELECTRONICS AREAS OF INTEREST:

- MULTIFUNCTIONAL SENSING
- HIGH FREQUENCY, MOBILE PLATFORM COMMUNICATIONS
- INFORMATION SCIENCE ELECTRONICS
- OPTOELECTRONIC WARFARE
- LANDMINE DETECTION

### D. ENVIRONMENTAL SCIENCES AREAS OF INTEREST:

- ATMOSPHERIC SCIENCES
  - O ATMOSPHERIC EFFORTS ON SIGNATURE AND COMMUNICATIONS
  - O CHARACTERIZATION OF THE ATMOSPHERE AT HIGH RESOLUTION
  - O MANAGEMENT AND APPLICATION OF ATMOSPHERIC INFORMATION
- TERRESTRIAL SCIENCES
  - O TERRAIN PROPERTIES AND CHARACTERIZATION
  - O TERRESTRIAL PROCESSES AND DYNAMICS
  - O TERRESTRIAL SYSTEM ANALYSIS AND MODELING

### IV. ARMY RESEARCH OFFICE (ARO), RESEARCH TRIANGLE PARK, NC (CONTINUED)

SBIR POC: DR. ROGER K. CANNON, 919-549-4278, roger.k.cannon@us.army.mil

### E. LIFE SCIENCES AREAS OF INTEREST:

- BIMOLECULAR AND CELLULAR MATERIALS AND PROCESSES
- MICROBIOLOGY AND BIODEGRADATION
- PHYSIOLOGY, SURVIVABILITY & PERFORMANCE
- NEUROPHYSIOLOGY AND COGNITIVE SCIENCES
- MOLECULAR GENETICS AND GENOMICS

### F. MATERIALS SCIENCE AREAS OF INTEREST:

- MULTIFUNCTIONAL AND SMART MATERIALS
- PROBABILITY AND STATISTICS
- DEFORMATION AND TOUGHENING PHENOMENA
- DEFECT ENGINEERING
- INTERFACE ENGINEERING AND SURFACE MODIFICATION
- COMPUTATIONAL MATERAILS MODELING AND DESIGN
- SYNTHESIS & PROCESSING
- DEFECT ENGINEERING
- DEFORMATION & FRACTURE
- STRENGTHENING & TOUGH MATERIALS
- NONDESTRUCTIVE CHARACTERIZATION

### G. MATHEMATICAL SCIENCES AREAS OF INTEREST:

- PROBABILITY & STATISTICS
  - O STOCHASTIC ANALYSIS AND APPLIED PROBABILITY
  - O STATISTICAL METHODS
- DISCRETE MATHEMATICS AND COMPUTER SCIENCE
  - O DISCRETE MATHEMATICS
  - O COMPUTER SCIENCE
- COMPUTATIONAL MATHEMATICS
  - O NUMERICAL METHODS
  - O OPTIMIZATION
  - O SOFTWARE TOOLS
- MODELING OF COMPLEX SYSTEMS
  - O ADVANCED COMPLEX MATERIALS FOR STRUCTURE, ARMOR, AND SENSORS
  - O INVERSE SCATTERING IN COMPLEX MEDIA
  - O MODELING OF MULTISCALE OBJECTS AND FUNCTIONS
  - O NONLINEAR DYNAMICS FOR COMMUNICATIONS
  - O DATA FUSION IN COMPLEX NETWORKS
  - DYNAMICS OF DISTRIBUTED NETWORKS OF EMBEDDED SENSORS AND ACTUATORS

# IV. ARMY RESEARCH OFFICE (ARO), RESEARCH TRIANGLE PARK, NC (CONTINUED) SBIR POC: DR. ROGER K. CANNON, 919-549-4278, roger.k.cannon@us.army.mil

### H. MECHANICAL SCIENCES AREAS OF INTEREST:

- PROPULSION AND ENERGETICS PROGRAMS
  - ENGINE COMBUSTION
  - O GUN AND MISSILE PROPULSION/ENERGETIC MATERIALS HAZARDS
- FLUID DYNAMICS PROGRAM
  - O ROTORCRAFT AERODYNAMICS
  - O MISSILE AND PROJECTILE AERODYNAMICS
- SOLID MECHANICAL PROGRAM
  - MECHANICS OF HETEROGENEOUS SOLIDS
  - O IMPACT, PENETRATION, AND SHOCK
- STRUCTURE AND DYNAMICS PROGRAM
  - O STRUCTURAL MECHANNICS OF COMPOSITE MATERIALS
  - O STRUCTURAL DYNAMICS AND SIMULATION
  - O SMART STRUCTURES

### I. PHYSICS AREAS OF INTEREST:

- CONDENSED MATTER PHYSICS PROGRAM
  - NANOMETER-SCALE PHYSICS
  - O ELECTRONIC AND PHOTONIC BAND ENGINEERING
  - O MULTIFUNCTIONAL PROBES AND CONTROL
- THEORETICAL PHYSICS AND NONLINEAR PHENOMENA
- OUANTUM INFORMATION SCIENCES
  - O FUNDAMENTAL STUDIES
  - O QUANTUM COMPUTATION
  - O QUANTUM COMMUNICATION
- ATOMIC AND MOLECULAR PHYSICS
  - O MATTER-WAVE OPTICS
  - MOLECULAR PHYSICS
  - O FUNDAMENTAL ATOMIC AND MOLECULAR PHYSICS
- OPTICS, PHOTONICS AND IMAGING SCIENCE
  - O OPTICS
  - o PHOTOTONICS
  - o IMAGING
- SOLDIER ENHANCEMENT
- ATOMIC, MOLECULAR, AND OPTICAL PHYSICS
- NONLINEAR DYNAMICS AND THEORETICAL
- PHOTONICS
- OPTICS, PHOTONICS, IMAGE
- QUANTUM INFORMATION SCIENCE
- CONDENSED MATTER

# V. COMMUNICATIONS-ELECTRONICS RESEARCH DEVELOPMENT AND ENGINEERING CENTER (CERDEC), FT. MONMOUTH, NJ

SBIR POC: SUZANNE WEEKS, 732-427-3275, suzanne.weeks@mail1.monmouth.army.mil

MISSION: PROVIDE THE U.S. ARMY EFFECTIVE INTELLIGENCE AND INFORMATION WARFARE: PROVIDE AN EFFECTIVE SIGNALS INTELLIGENCE (SIGINT), ELECTRONIC WARFARE, MEASUREMENT AND SIGNATURE INTELLIGENCE (MASINT), INFORMATION OPERATIONS (IO) AND INTELLIGENCE DISSEMINATION/FUSION MATERIAL CAPABILITY TO THE U.S. ARMY THROUGH: SUPERIOR TECHNOLOGY DEVELOPMENT, PROTOTYPE DEMONSTRATIONS, AND RAPID TRANSITION OF STATE-OF-THE-ART TECHNIQUES INTO SYSTEMS; DEVELOPMENT, PRODUCTION AND FIELDING OF SPECIFIED EQUIPMENT IN SUPPORT OF ARMY AND NATIONAL INTELLIGENCE REQUIREMENTS AND LAW ENFORCEMENT AGENCIES (LEA); ENGINEERING AND MANAGEMENT SUPPORT TO PROGRAM EXECUTIVE OFFICERS (PEOS) AND THEIR PROGRAM MANAGERS (PMS) IN THE DEVELOPMENT, PRODUCTION AND FIELDING OF SYSTEMS.

### A. NIGHT VISION AND ELECTRONIC SENSORS DIRECTORATE AREAS OF INTEREST:

- THERMAL IMAGING
- IMAGE INTENSIFICATION
- CHARGE COUPLE DEVICES (CCD)/CMOS DEVICES
- IMAGE FUSION
- SENSOR FUSION
- ADVANCED OPTICS AND DISPLAYS
- HIGH DENSITY PROCESSORS
- AIDED TARGET RECOGNITION (ATR)
- LASERS/LASER RADAR
- DECEPTION
- COUNTERMINE SCIENCE & TECHNOLOGY
- SENSOR MODELING & SIMULATION
- IMPROVISED EXPLOSIVE DEVICES (IED)

### B. INTELLIGENCE AND INFORMATION WARFARE DIRECTORATE AREAS OF INTEREST:

- COLLECTION SYSTEMS GENERAL
- SIGNAL INTELLIGENCE (SIGINT)
- DIRECTION FINDING (DF) DEVELOPMENT AND ENHANCEMENTS
- EMITTER INTERCEPT TECHNIQUES
- ELECTRONIC INTELLIGENCE (ELINT)
- MEASUREMENT AND SIGNATURE INTELLIGENCE (MASINT)
- ELECTRONIC WARFARE
- RADAR TECHNOLOGY AND SYSTEMS
- INFORMATION OPERATIONS (IO) ATTACK
- INFORMATION PROCESSING, DISSEMINATION AND DISPLAY
- MODELING AND SIMULATION INITIATIVES
- RF INTELLIGENCE (RINT)
- SENSE THROUGH THE WALL (STTW) TECHNOLOGY
- MULTI-INT TECHNOLOGY
- COMBAT IDENTIFICATION (CID)

# V. COMMUNICATIONS-ELECTRONICS RESEARCH DEVELOPMENT AND ENGINEERING CENTER (CERDEC), FT. MONMOUTH, NJ (CONTINUED)

SBIR POC: SUZANNE WEEKS, 732-427-3275, suzanne.weeks@mail1.monmouth.army.mil

### C. SPACE AND TERRESTRIAL COMMUNICATIONS DIRECTORATE AREAS OF INTEREST:

- SECURE ON-THE-MOVE NETWORKING
- REACHBACK/RANGE EXTENSION (SATCOM & UAV)
- ANTENNAS
- INFORMATION ASSURANCE
- UNATTENDED SENSOS NETWORKING
- SECURE PERSONAL COMMUNICATIONS
- MODELING AND SIMULATION
- NETWORKED FIRES
- JTRS COMMUNICATIONS
- FUNCTIONAL TECHNOLOGY (LASER COMM, SPECTRUM UTILIZATION)

### D. COMMAND AND CONTROL DIRECTORATE AREAS OF INTEREST:

- BATTLE COMMAND
- CONTEXTUAL INFORMATION MANAGEMENT
- VISUAL DISPLAYS
- INTERACTIVE SPEECH
- TACTICAL LOGISTICS MANAGEMENT TOOLS
- MACHINE LANGUAGE TRANSLATION (MT)/NATURAL LANGUAGE PROCESSING (NLP)
- POSITIONING, NAVIGATION AND TIMING (PNT) TECHNOLOGY NEEDS
- POWER THE FORCE
- PROTOTYPE DEVELOPMENT & PLATFORM INTEGRATION TECHNOLOGIES

# VI. U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH DEVELOPMENT CENTER (ERDC), 72 LYME ROAD, HANOVER, NH 03755-1290

SBIR POC: THERESA SALLS, 603-646-4591, theresa.a.salls@hq02.usace.army.mil

ERDC IS ONE OF THE MOST DIVERSE ENGINEERING AND SCIENTIFIC RESEARCH ORGANIZATIONS IN THE WORLD. IT CONSISTS OF SEVEN LABORATORIES AT FOUR GEOGRAPHICAL SITES IN VICKSBURG, MISS.; CHAMPAIGN, ILL.; HANOVER, N.H.; AND ALEXANDRIA, VA.; EMPLOYS MORE THAN 2,000 ENGINEERS, SCIENTISTS AND SUPPORT PERSONNEL; HAS \$1.2 BILLION IN FACILITIES; AND CONDUCTS AN ANNUAL RESEARCH PROGRAM EXCEEDING \$660 MILLION IN FY02.

MISSION: ERDC RESEARCH AND DEVELOPMENT SUPPORTS THE DEPARTMENT OF DEFENSE, OTHER FEDERAL AGENCIES, AND THE NATION IN MILITARY AND CIVILIAN PROJECTS. ITS PRIMARY MISSION AREAS INCLUDE:

- WARFIGHTER SUPPORT
- INSTALLATIONS
- ENVIRONMENT
- WATER RESOURCES
- INFORMATION TECHNOLOGY

AREAS OF INTEREST: RESEARCH PROJECTS INCLUDE FACILITIES, AIRFIELDS AND PAVEMENTS, PROTECTIVE STRUCTURES, SUSTAINMENT ENGINEERING, ENVIRONMENTAL QUALITY, INSTALLATION RESTORATION (CLEANUP), COMPLIANCE AND CONSERVATION, REGULATORY FUNCTIONS, FLOOD CONTROL, NAVIGATION, RECREATION, HYDROPOWER, TOPOGRAPHY, MAPPING, GEOSPATIAL DATA, WINTER CLIMATIC CONDITIONS, OCEANOGRAPHY, ENVIRONMENTAL IMPACTS, AND INFORMATION TECHNOLOGY.

# A. CONSTRUCTION ENGINEERING RESEARCH LABORATORY (CEERD-CV), PO BOX 9005, 2902 NEWMARK DRIVE, CHAMPAIGN, IL 61826-9005

POC: ANNE COX, 217-373-6731, anne.m.cox@erdc.usace.army.mil

MISSION: CERL CONDUCTS RESEARCH TO SUPPORT SUSTAINABLE MILITARY INSTALLATIONS. RESEARCH IS DIRECTED TOWARD INCREASING THE ARMY'S ABILITY TO MORE EFFICIENTLY CONSTRUCT, OPERATE, AND MAINTAIN ITS INSTALLATIONS AND ENSURE ENVIRONMENTAL QUALITY AND SAFETY AT A REDUCED LIFE-CYCLE COST. EXCELLENT FACILITIES SUPPORT THE ARMY'S TRAINING, READINESS, MOBILIZATION, AND SUSTAINABILITY MISSIONS. AN ADEQUATE INFRASTRUCTURE AND REALISTIC TRAINING LANDS ARE CRITICAL ASSETS TO INSTALLATIONS, WHICH SERVE AS PLATFORMS TO PROJECT POWER WORLDWIDE. CERL ALSO SUPPORTS ERDC'S R&D MISSION IN CIVIL WORKS AND MILITARY ENGINEERING.

- INSTALLATION OPERATIONS RESEARCH INTO TECHNOLOGIES AND SYSTEMS THAT CAN BE USED TO REDUCE THE MANPOWER AND COSTS ASSOCIATED WITH OPERATING INSTALLATIONS BY IMPROVING THE MAINTENANCE AND REPAIR OF INFRASTRUCTURE, CONSERVING AND IMPROVING ENERGY UTILIZATION, PREVENTING POLLUTION AND COMPLYING WITH ENVIRONMENTAL REGULATIONS, AND IMPROVING BASE OPERATIONS (BASOPS) MANAGEMENT FUNCTIONS THROUGH BUSINESS AND PROCESS REINVENTION.
- MILITARY LAND MANAGEMENT RESEARCH TO PROVIDE KNOWLEDGE, TOOLS, AND IMPROVED PRACTICES TO SUPPORT THE SUSTAINED MILITARY USE OF MILITARY LANDS, SEAS, AND AIRSPACE, AND TO SUPPORT MILITARY STEWARDSHIP OF NATURAL AND CULTURAL GEOPHYSICAL RESOURCES ON THESE LANDS.
- FACILITY ACQUISITION AND REVITALIZATION RESEARCH TO IMPROVE THE FACILITY DELIVERY PROCESS, MITIGATE FACILITY SEISMIC RISK, AND DEVELOP ENDURING BUILDING SYSTEMS.

# VI. U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH DEVELOPMENT CENTER (ERDC), 72 LYME ROAD, HANOVER, NH 03755-1290 (CONTINUED)

SBIR POC: THERESA SALLS, 603-646-4591, theresa.a.salls@hq02.usace.army.mil

B. COLD REGIONS RESEARCH & ENGINEERING LABORATORY (CEERD-RV), 72 LYME ROAD, HANOVER, NH 03755-1290

POC: THERESA SALLS, 603-646-4591, theresa.a.salls@hq02.usace.army.mil

MISSION: OUR MISSION IS TO GAIN KNOWLEDGE OF COLD REGIONS THROUGH SCIENTIFIC AND ENGINEERING RESEARCH AND PUT THAT KNOWLEDGE TO WORK FOR THE CORPS OF ENGINEERS, THE ARMY, THE DEPARTMENT OF DEFENSE, AND THE NATION. CRREL IS THE DOD'S ONLY LABORATORY THAT ADDRESSES THE PROBLEMS AND OPPORTUNITIES UNIQUE TO THE WORLD'S COLD REGIONS. OUR WORK INCLUDES AN AMAZING ARRAY OF TOPIC AREAS, INCLUDING ENGINEERING AND TECHNOLOGY IN COLD REGIONS, SEISMIC-ACOUSTIC PHYSICS, TOOLS FOR MILITARY COMBAT AND SURVIVAL IN COLD WEATHER, AND MANY OTHERS.

- CONDUCTS RESEARCH TO CHARACTERIZE THE CONSTRAINTS PLACED ON ARMY MATERIEL AND OPERATIONS IN A REALISTIC WINTER BATTLEFIELD ENVIRONMENT
  - O DEVELOPS TECHNIQUES AND EQUIPMENT TO MITIGATE EFFECTS.
  - PROVIDES ENGINEERING AND CONSULTANT SERVICES ON COLD RELATED PROBLEMS TO DEVELOPERS OF ARMY DOCTRINE AND MATERIEL
- CONDUCTS RESEARCH TO CHARACTERIZE THE NATURE AND THE IMPACT OF COLD EFFECTS ON CONSTRUCTION, OPERATIONS AND MAINTENANCE OF ARMY AND CIVIL WORKS FACILITIES AND ACTIVITIES
  - O DEVELOPS NEW PROCEDURES AND EQUIPMENT TO MINIMIZE COSTS
  - O PROVIDES ENVIRONMENTAL SERVICES ON COLD RELATED PROBLEMS TO DEVELOPERS OF EQUIPMENT, MANAGERS OF ARMY AND CIVIL WORKS FACILITIES AND OTHER FIELD USERS
- CONDUCTS RESEARCH AND RECOMMENDS MITIGATIVE MEASURES ON THE IMPACT OF HUMAN ACTIVITY ON THE ENVIRONMENT IN COLD REGIONS
- CONDUCTS FUNDAMENTAL RESEARCH TO UNDERSTAND THE NATURE AND CHARACTERISTICS OF SNOW, ICE, FROZEN GROUND AND OTHER MATERIALS IN COLD ENVIRONMENTS INCLUDING THEIR INTER-RELATIONSHIP WITH OTHER ENVIRONMENTAL PARAMETERS
- PERFORMS OTHER RESEARCH AND DEVELOPMENT AS REQUIRED BY AGREEMENTS BETWEEN THE OFFICE OF THE CHIEF OF ENGINEERS (OCE) AND OTHER ARMY AND GOVERNMENT AGENCIES, AND THE PRIVATE SECTOR

# VI. U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH DEVELOPMENT CENTER (ERDC), 72 LYME ROAD, HANOVER, NH 03755-1290 (CONTINUED)

SBIR POC: THERESA SALLS, 603-646-4591, theresa.a.salls@hq02.usace.army.mil

C. TOPOGRAPHIC ENGINEERING CENTER (CEERD-TP), 7701 TELEGRAPH ROAD, BUILDING 2592, ALEXANDRIA, VA 22315-3864

POC: JAMES ROGERS, 703-428-7447, james.p.rogers.ii@erdc.usace.army.mil

MISSION: TEC'S MISSION IS TO PROVIDE THE WARFIGHTER WITH A SUPERIOR KNOWLEDGE OF THE BATTLEFIELD, AND SUPPORT THE NATION'S CIVIL AND ENVIRONMENTAL INITIATIVES THROUGH RESEARCH, DEVELOPMENT, AND THE APPLICATION OF EXPERTISE IN THE TOPOGRAPHIC AND RELATED SCIENCES.

### AREAS OF INTEREST:

- USE IMAGERY, GEOGRAPHIC INFORMATION SYSTEMS (GIS), AND INTEGRATING TECHNOLOGIES TO PROVIDE SUPERIOR KNOWLEDGE OF THE BATTLESPACE
- EXPLOIT VISUAL, SPECTRAL, SPATIAL, AND OTHER REMOTE AND INSITU SENSOR DATA FOR MAPPING, TERRAIN ANALYSIS, FEATURE EXTRACTION, BATTLESPACE CHEM/BIO DETECTION, PRECISE POSITIONING, AND NAVIGATION FOR BOTH WARFIGHTER AND CIVIL COMMUNITIES
- ANALYZE, INTEGRATE, EXPLOIT, DISPLAY, AND VISUALIZE GEOSPATIAL INFORMATION
- SYSTEM DEVELOPMENT, SCIENTIFIC INTEGRATION AND DEMONSTRATION SUPPORT TO BUILD AND ILLUSTRATE THE USE OF GEOSPATIAL SYSTEMS AND TECHNOLOGIES
- GENERATE, BUILD, DISSEMINATE, AND MANAGE GEOSPATIAL INFORMATION FOR THE WARFIGHTER AND THE CIVIL COMMUNITY.

# D. COASTAL AND HYDRAULICS LABORATORY, (CEERD-HV), 3909 HALLS FERRY ROAD, VICKSBURG, MS 39180-6199

POC: THERESA SALLS, 603-646-4591, theresa.a.salls@hq02.usace.army.mil

MISSION: THE U.S. ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER, COASTAL & HYDRAULICS LABORATORYS (CHL) OCEAN/ESTUARINE RESEARCH SUPPORT WORK FOR THE DOD TASK FORCE IN SUPPORT OF THE OCEAN COMMISSION WITH USACE.

### MILITARY HYDROLOGY AREAS OF INTEREST:

- COASTAL ENGINEERING
- HYDRAULIC ENGINEERING
- FLOOD CONTROL AND NAVIGATION
- DYNAMIC MODELING AND SIMULATION
- ENVIRONMENTAL IMPACT AND GROUNDWATER MODELING
- DREDGING AND DREDGED MATERIAL DISPOSAL

# VI. U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH DEVELOPMENT CENTER (ERDC), 72 LYME ROAD, HANOVER, NH 03755-1290 (CONTINUED)

SBIR POC: THERESA SALLS, 603-646-4591, theresa.a.salls@hq02.usace.army.mil

E. GEOTECHNICAL AND STRUCTURES LABORATORY, (CEERD-GV), 3909 HALLS FERRY ROAD, VICKSBURG, MS 39180-6199

POC: MILTON MYERS, 601-634-3376, william.m.myers@erdc.usace.army.mil

MISSION: THE GEOTECHNICAL AND STRUCTURES LABORATORY (GSL) IS A DEPARTMENT OF DEFENSE (DOD) RESEARCH AND ENGINEERING ORGANIZATION THAT SERVES THE U.S. ARMY AND THE NATION BY DEVELOPING SOLUTIONS TO CHALLENGES IN GEOTECHNICAL AND STRUCTURAL ENGINEERING AND RELATED DISCIPLINES. ITS MISSION FOCUSES ON MILITARY ENGINEERING TO DEVELOP INNOVATIVE TECHNOLOGIES FOR SURVIVABILITY AND PROTECTIVE STRUCTURES, AIRFIELDS/PAVEMENTS, AND SUSTAINED MANEUVERABILITY, AND ON CIVIL WORKS ENGINEERING TO SUPPORT WATER-RESOURCE INFRASTRUCTURE AND GEOSCIENCES.

### AREAS OF INTEREST:

- SOIL AND ROCK MECHANICS
- GEOTECHNICAL ENGINEERING
- GEOLOGY, GEOPHYSICS, AND HYDROGEOLOGY
- EARTHQUAKE ENGINEERING
- PAVEMENTS TECHNOLOGY
- STRUCTURAL ENGINEERING, INCLUDING STRUCTURAL DYNAMICS
- MILITARY ENGINEERING
- VEHICLE-TERRAIN INTERACTION
- CONCRETE AND CONSTRUCTION MATERIALS TECHNOLOGY

### F. ENVIRONMENTAL LABORATORY, (CEERD-EV), 3909 HALLS FERRY ROAD, VICKSBURG, MS 39180-6199

POC: STEVE PRANGER, 601-634-3706, steve.a.pranger@erdc.usace.army.mil

MISSION: ENVIRNOMENTAL LABORATORY STAFF SUPPORTS THE ENVIRONMENTAL MISSION OF THE U.S. ARMY, THE DOD, AND THE NATION THROUGH RESEARCH, DEVELOPMENT, SPECIAL STUDIES, AND TECHNOLOGY TRANSFER. ENVIRONMENTAL LABORATORY RESEARCH INCLUDES A NETWORK OF EXPERTISE AND FACILITIES FROM OTHER ERDC AND CORPS LABORATORIES, OTHER GOVERNMENT AGENCIES, ACADEMIA, AND PRIVATE SECTOR.

- ENVIRONMENTAL SITE CHARACTERIZATION
  - O INSTALLATION RESTORATION
  - ECOSYSTEM PROCESSES
  - O WETLANDS PROCESSES
  - O RESERVOIR, RIVERINE, ESTUARINE AND COASTAL WATER QUALITY
- NATURAL RESOURCE MANAGEMENT

# <u>VI. U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH DEVELOPMENT CENTER (ERDC),</u> 72 LYME ROAD, HANOVER, NH 03755-1290 (CONTINUED)

SBIR POC: THERESA SALLS, 603-646-4591, theresa.a.salls@hq02.usace.army.mil

G. INFORMATION TECHNOLOGY LABORATORY (CEERD-IV), 3909 HALLS FERRY ROAD, VICKSBURG, MS 39180-6199

POC: THERESA SALLS, 603-646-4591, theresa.a.salls@hq02.usace.army.mil

MISSION: THE INFORMATION TECHNOLOGY LABORATORY (ITL) IS THE PREEMINENT ENGINEERING INFORMATION TECHNOLOGY ORGANIZATION IN THE DEPARTMENT OF DEFENSE (DOD). ITL SUPPORTS THE RESEARCH MISSIONS OF U.S. ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER (ERDC), OTHER CORPS ACTIVITIES, THE ARMY, DOD, AND OTHER AGENCIES BY CONCEIVING, PLANNING, MANAGING, CONDUCTING, AND COORDINATING RESEARCH AND DEVELOPMENT (R&D) IN HIGH PERFORMANCE COMPUTING, COMPUTER-AIDED AND INTERDISCIPLINARY ENGINEERING, COMPUTER SCIENCE, INFORMATION TECHNOLOGY, AND INSTRUMENTATION SYSTEMS. THROUGH A BALANCED PROGRAM OF R&D AND DEMONSTRATION, ITL ADVANCES THE ARMY'S KNOWLEDGE AND ABILITY TO USE ADVANCED INFORMATION TECHNOLOGY TO ADDRESS A WIDE RANGE OF ENGINEERING AND SCIENTIFIC CHALLENGES.

### **AREAS OF INTEREST:**

- COMPUTER-AIDED ENGINEERING
- COMPUTER SCIENCE
- DOD HIGH-PERFORMANCE COMPUTING CENTER
- INFORMATION MANAGEMENT
- INSTRUMENTATION SYSTEMS DEVELOPMENT

### VII. EDGEWOOD CHEMICAL BIOLOGICAL CENTER (ECBC), ABERDEEN PROVING GROUND, MD

SBIR POC: RON HINKLE, 410-436-2031, ron.hinkle@us.army.mil

MISSION: ECBC WILL PROTECT THE WARFIGHTER AND U.S. INTERESTS THROUGH THE APPLICATION OF SCIENCE, TECHNOLOGY AND ENGINEERING IN CHEMICAL AND BIOLOGICAL DEFENSE.

**VISION:** ECBC WILL BE THE SOURCE OF CHOICE FOR CHEMICAL AND BIOLOGICAL DEFENSE RESEARCH, DEVELOPMENT, AND ACQUISITION SUPPORT.

### STRATEGIC GOALS:

- FOSTER AN EXCEPTIONAL WORKFORCE OF GOVERNMENT, ACADEMIA AND INDUSTRY THAT EMBRACES AND IS OPTIMIZED TO MEET THE CHANGING NEEDS OF OUR CUSTOMERS
- SERVE AS PROVIDERS OF THE BEST POSSIBLE SOLUTIONS FOR OUR CUSTOMERS THROUGH OUR CHEM./BIO EXPERTISE, EXPERIENCE AND PARTNERSHIPS
- MAINTAIN STATE OF THE ART EQUIPMENT AND FACILITIES THAT PROVIDE OUR WORKFORCE WITH AN ENVIRONMENT THAT IS SAFE, TECHNOLOGICALLY ADVANCED AND ALLOWS US TO BE COMPETITIVE
- REALIZE INCREASED AWARENESS OF ECBC'S CAPABILITIES BY OUR CUSTOMERS AND STAKEHOLDERS

### **AREAS OF INTEREST:**

- DETECTION AND IDENTIFICATION OF CHEMICAL AND BIOLOGICAL (CB) AGENTS
- ADVANCED WARNING OF ALL CHEMICAL AND BIOLOGICAL AGENTS
- CHEMICAL AND BIOLOGICAL PROTECTIVE MASKS
- PROVIDE SMOKE FOR PROTECTION OF THE BATTLEFIELD
- COLLECTIVE PROTECTION AGAINST CB AGENTS FOR VANS, VEHICLES AND SHELTERS
- DECONTAMINATION OF EQUIPMENT EXPOSED TO CB AGENTS
- PREPAREDNESS AGAINST DOMESTIC CB TERRORISM

### VIII. NATICK SOLDIER CENTER (NSC), NATICK, MA

SBIR POC: DR. GERALD RAISANEN, 508-233-4223, gerald.raisanen@natick.army.mil

MISSION: WE HAVE THE DEDICATED MISSION TO MAXIMIZE THE SOLDIER'S SURVIVABILITY, SUSTAINABILITY, MOBILITY, COMBAT EFFECTIVENESS AND QUALITY OF LIFE BY TREATING THE SOLDIER AS A SYSTEM

**OBJECTIVES:** WE ACCOMPLISH OUR MISSION THROUGH BASIC AND APPLIED RESEARCH, TECHNOLOGY DEVELOPMENT AND DEMONSTRATION, AND ENGINEERING OF COMBAT CLOTHING AND INDIVIDUAL EQUIPMENT, RATIONS AND FOOD SERVICE EQUIPMENT, AIRDROP SYSTEMS, SHELTERS, AND ORGANIZATIONAL EQUIPMENT. WE ALSO INTEGRATE AND TRANSITION THE TECHNOLOGIES FOR COMBAT-ESSENTIAL ELEMENTS OF COMMAND AND CONTROL, SURVIVABILITY, LETHALITY, SUSTAINABILITY AND MOBILITY INTO THE SOLDIER SYSTEM AND WARRIOR SYSTEMS FOR OTHER SERVICES AND AGENCIES. WE ARE IN DIRECT SUPPORT OF THE ARMY'S S&T VISION, STRATEGY, AND TRANSFORMATION OBJECTIVES.

VISION: TO BE THE RECOGNIZED CENTER OF CHOICE FOR INDIVIDUAL WARRIOR-RELATED TECHNOLOGIES AND WARRIOR SYSTEMS, AND INTERNATIONALLY KNOWN AS A PREEMINENT PROVIDER OF RESEARCH, DEVELOPMENT, ENGINEERING, AND INTEGRATION SERVICES.

### **AREAS OF INTEREST:**

- **BALLISTIC PROTECTION**
- PERCUTANEOUS CHEMICAL/BIOLOGICAL PROTECTION
- COUNTERMEASURES TO SENSORS
- MULTIFUNCTIONAL MATERIALS
- **BIOENGINEERED MATERIALS**
- LASER EYE PROTECTION
- SOLDIER MODELING AND SIMULATION
- SOLDIER INTEGRATED/ENVIRONMENTAL PROTECTION
- AIRDROP SYSTEMS
- **GROUND MOBILITY**
- PERFORMANCE ENHANCEMENTS AND NUTRITION
- FOOD PRESERVATION AND STABILIZATION
- FOOD PACKAGING
- FOOD SERVICE EQUIPMENT/ENERGY
- AIRBEAM TECHNOLOGY FOR SHELTERS
- RIGID AND SOFT WALL SHELTERS
- ORGANIZATIONAL EQUIPMENT

### IX. U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND (MRMC), FORT DETRICK, MD

SBIR POC: TERRY MCCUNE, 301-619-2110, <a href="mailto:terry.mccune@det.amedd.army.mil">terry.mccune@det.amedd.army.mil</a>
J.R. MYERS, 301-619-7377, <a href="mailto:james.myers@det.amedd.army.mil">james.myers@det.amedd.army.mil</a>

### MISSION:

- PROJECT AND SUSTAIN A HEALTHY AND MEDICALLY PROTECTED FORCE
- BE THE AGENT OF TRANSFORMATION FOR THE FUTURE MEDICAL FORCE
- ENHANCE THE CARE OF SERVICE MEMBERS AND THE MILITARY FAMILY BY LEVERAGING MEDICAL SOLUTIONS

### **GOALS:**

- ENSURE OUR MILITARY FORCES ARE DEPLOYED IN A STATE OF OPTIMAL HEALTH, EQUIPPED TO PROTECT THEMSELVES FROM DISEASE AND INJURY.
- LEAD TRANSFORMATION FOR A FLEXIBLE, AGILE, AND RESPONSIVE FUTURE MEDICAL FORCE.
- PROVIDE QUALITY, ACCESSIBLE, COST-EFFECTIVE HEALTH SOLUTIONS.

### AREAS OF INTEREST:

- MILITARY INFECTIOUS DISEASES RESEARCH
  - MEDICAL READINESS
  - o VACCINES
  - O BIOTECHNOLOGY
  - O PROPHYLAXIS/TREATMENT DRUGS
  - O DIAGNOSTICS/PROGNOSTICS
  - O VECTOR CONTROL
  - O HIV COUNTERMEASURES
- COMBAT CASUALTY CARE RESEARCH
  - O LIGHTWEIGHT MEDICAL EQUIPMENT
  - MEDICAL C4ISR
  - O TRAUMA CARE
  - O HEALTH MONITORING & DIAGNOSTIC TECHNOLOGY
- MILITARY OPERATIONAL MEDICINE RESEARCH
  - O SOLDIER SELECTION AND SUSTAINMENT
  - SOLDIER PERFORMANCE
  - WARRIOR SYSTEM MODELING
  - HEALTH HAZARDS PROTECTION
  - O HEALTH MONITORING
- MEDICAL CHEMICAL AND BIOLOGICAL DEFENSE RESEARCH
  - O MEDICAL MANAGEMENT OF CW CASUALTIES
  - MEDICAL READINESS
  - O DRUG PROPHYLAXES/PRETREATMENTS
  - O VACCINES/THERAPIES
  - O FIELD-PORTABLE DIAGNOSTIC SYSTEMS
  - o BIOTECHNOLOGY
- CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS
  - O BREAST, PROSTRATE, AND OVARIAN CANCER RESEARCH
  - O NEUROFIBROMATOSIS RESEARCH
  - O OSTEOPOROSIS AND BONE DISEASE RESEARCH
  - O PARKINSON'S DISEASE RESEARCH
- TELEMEDICINE AND ADVANCED TECHNOLOGY RESEARCH CENTER
  - o TELECOMMUNICATIONS
  - ROBOTICS
  - O COMPUTER SOFTWARE ENGINEERING
  - O ARTIFICIAL INTELLIGENCE

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### X. U.S. ARMY AVIATION & MISSILE RESEARCH, DEVELOPMENT & ENGINEERING CENTER (AMRDEC)

A. AVIATION AND MISSILE RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER (AMRDEC), REDSTONE ARSENAL, AL

SBIR POC: OTHO H. THOMAS, JR., 256-842-9227, otho.thomas@us.army.mil

MISSION: TO PLAN, MANAGE AND CONDUCT RESEARCH, EXPLORATORY AND ADVANCED DEVELOPMENT, AND PROVIDE ONE-STOP LIFE CYCLE ENGINEERING, TECHNICAL, AND SCIENTIFIC SUPPORT FOR AVIATION AND MISSILE WEAPON SYSTEMS AND THEIR SUPPORT SYSTEMS, UAV PLATFORMS, ROBOTIC GROUND VEHICLES, AND ALL OTHER ASSIGNED SYSTEMS, PROGRAMS AND PROJECTS.

### **OBJECTIVES:**

- PROVIDE TECHNICAL SUPPORT TO CUSTOMERS
  - PROGRAM EXECUTIVE OFFICE AIR AND MISSILE DEFENSE
  - O PROGRAM EXECUTIVE OFFICE TACTICAL MISSILES
  - O PROGRAM EXECUTIVE OFFICE AVIATION
  - O DEPUTY FOR SYSTEMS ACQUISITION
- ADVANCE TECHNOLOGY BASE TO ENABLE THE 21<sup>ST</sup> CENTURY SOLDIER TO ACHIEVE SWIFT DECISIVE VICTORY WITHOUT CASUALTIES
- ASSURE GOVERNMENT IS A SMART BUYER
- PROVIDE INDEPENDENT PRODUCT ASSESSMENT
- PROVIDE TECHNICAL INPUT TO MILITARY PLANNING
- TRANSFER OF GOVERNMENT DEVELOPED TECHNOLOGY
- SERVE AS STIMULUS TO INDUSTRY AND UNIVERSITIES

- SYSTEMS SIMULATION AND DEVELOPMENT DIRECTORATE
  - AEROBALLISTICS
  - FLIGHT DYNAMICS
  - O AERODYNAMICS
  - SYSTEM PERFORMANCE ANALYSIS
  - O SYSTEM SIMULATION
  - O HARDWARE-IN-THE-LOOP SIMULATION
- APPLIED SENSORS, GUIDANCE & ELECTRONICS DIRECTORATE
  - o SENSORS
  - O TERMINAL GUIDANCE
  - O MISSILE CONTROL
  - O MISSILE AND UNMANNED RF GUIDANCE LINK
  - O MISSILE FIRE CONTROL
  - O TARGET AND BACKGROUND ENVIRONMENTS
  - O INFRARED
  - O OPTICS AND LASERS
  - O MISSILE AND LAUNCHER NAVIGATION
  - MISSILE, UNMANNED AERIAL VEHICLES (UAVS), UNMANNED GROUND VEHICLES (UGVS), AND ROBOTICS TECHNOLOGY
  - MISSILE EMBEDDED COMPUTERS AND TRAINERS
  - O RF FIRE CONTROL & GUIDANCE SENSORS
  - O AUTOMATIC TARGET RECOGNITION
  - AUTOPILOT AND AUTOSTABILIZATION
  - WIRELESS NETWORKS
  - O IMAGE FUSION AND COMPRESSION

# X. U.S. ARMY AVIATION & MISSILE RESEARCH, DEVELOPMENT & ENGINEERING CENTER (AMRDEC) (CONTINUED)

SBIR POC: OTHO H. THOMAS, JR., 256-842-9227, otho.thomas@us.army.mil

### AREAS OF INTEREST: (CONTINUED)

- APPLIED SENSORS, GUIDANCE & ELECTRONICS DIRECTORATE (CONTINUED)
  - O BATTLEFIELD ENVIRONMENTS
  - o 3D SIGNATURE MODELING
  - O POLARIZATION PHENOMENOLOGY AND TECHNOLOGY
  - o AUTOTRACKING
- PROPULSION AND STRUCTURES DIRECTORATE
  - o PROPULSION
    - SOLID AND LIQUID PROPULSION TECHNOLOGY
    - PROPELLANTS
  - INSENSITIVE MUNITIONS
  - IGNITION SYSTEMS
  - O INERT COMPONENTS (NOZZLES, LINERS,
  - O INSULATION AND CASES)
  - O ENERGY MANAGEMENT
  - o STRUCTURES
    - STRUCTURAL ANALYSIS
    - COMPOSITE STRUCTURES
    - WARHEAD/FUSE RESEARCH
    - ROBOTICS
    - ADVANCED KINETIC ENERGY
    - TACTICAL MISSILE LAUNCHERS
    - FUTURE FIGHTING SYSTEMS AND WEAPON
    - INTEGRATION
- WEAPONS SCIENCES DIRECTORATE
  - LASERS AND BEAM WEAPONRY
  - o NANOSCIENCE
  - O PHOTONICS AND OPTICAL SCIENCES
  - O CHAOS CONTROL
  - O PHOTONIC BANDGAP MATERIALS
  - O OPTICAL INTERCONNECTS
  - CONFORMAL DOME TECHNOLOGY
- SOFTWARE ENGINEERING DIRECTORATE
  - O MINIMIZE NUMBER AND TYPES OF COMPUTERS AND LANGUAGES IN MICOM WEAPON SYSTEMS
  - O SOFTWARE EVALUATION AND TESTS
  - O ARTIFICIAL INTELLIGENCE

# X. U.S. ARMY AVIATION & MISSILE RESEARCH, DEVELOPMENT & ENGINEERING CENTER (AMRDEC) (CONTINUED)

SBIR POC: OTHO H. THOMAS, JR., 256-842-9227, otho.thomas@us.army.mil

### AREAS OF INTEREST: (CONTINUED)

- ENGINEERING DIRECTORATE
  - O PRODUCIBILITY ENGINEERING AND PLANNING
  - ENGINEERING ANALYSIS
  - ENGINEERING SUPPORT FOR OUT OF PRODUCTION SYSTEMS
  - O SPARE PARTS PROCUREMENT
  - MONITOR PRODUCT DELIVERIES
  - O PROTOTYPE MISSILE SYSTEMS
  - ADVANCED MANUFACTURING TECHNOLOGIES (PROCESSES TECHNIQUES, AND EQUIPMENT)
     FOR ARMY MISSILE AND AVIATION SYSTEMS' GUIDANCE/PROPULSION, AND STRUCTURES
  - INCREASED PRODUCTIVITY
  - O ADVANCED MATERIALS PROCESSING AND FABRICATION TECHNOLOGIES
  - O NON-DESTRUCTIVE EVALUATION TECHNOLOGIES/SENSORS
  - MANUFACTURING RESEARCH IN PRINTED CIRCUIT BOARDS AND MICROELECTRONICS
  - O MANUFACTURING AUTOMATION
  - MANUFACTURING SIMULATION
  - ENTERPRISE SYSTEMS
  - O TOTAL LIFE CYCLE MANAGEMENT (I.E. DEVELOP, UPGRADE, REHOST, PRODUCE, AND SUSTAIN) FOR TEST PROGRAM SETS (TPSS)
  - O DIRECTED ENERGY AND POWER (BATTERIES)
  - SOLDERING TECHNOLOGIES
  - O SHELF LIFE/RELIABILITY OF NEW TECHNOLOGIES
  - LOGISTICS R&D
  - o PROGNOSTIC
  - O QUALITY ENGINEERING TECHNOLOGIES
  - O STATISTICALLY PROCESS CONTROL
  - PRODUCTION LINE INSPECTION AND TEST TECHNOLOGIES
- ADVANCED SYSTEMS DIRECTORATE ADVANCED CONCEPTS
  - O LONG RANGE MAJOR WEAPON SYSTEM PLANNING
  - O SIMULATION TO SUPPORT LONG RANGE PLANNING
- APPLIED TECHNOLOGY INITATIVES DIRECTORATE
  - O DEVELOPMENT AND INTEGRATION OF ADVANCED TECHNOLOGIES
  - O CONDUCT EXPERIMENTS, DEMONSTRATIONS, AND ANALYSES TO TRANSITION TECHNOLOGIES TO A VALIDATION PHASE DECISION POINT IN THE ACQUISITION PROCESS

# X. U.S. ARMY AVIATION & MISSILE RESEARCH, DEVELOPMENT & ENGINEERING CENTER (AMRDEC) (CONTINUED)

B. AVIATION AND MISSILE RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER (AMRDEC), FT. EUSTIS, VA, MOFFETT FIELD, CA.

SBIR POC: PJ JACKSON, 757-878-5400, pjackson@aatd.eustis.army.mil

**MISSION:** TRANSITION CRITICAL TECHNOLOGIES THAT ENHANCE AND SUSTAIN ARMY AVIATION AS THE PREMIERE LAND FORCE AVIATION COMPONENT IN THE WORLD.

**VISION:** BE RECOGNIZED AS THE LEADER WITHIN THE DEPARTMENT OF DEFENSE (DOD) FOR THE RESEARCH, DEVELOPMENT, AND ENGINEERING OF ROTORCRAFT AND TACTICAL UNMANNED AERIAL VEHICLE (UAV) SYSTEMS AND TECHNOLOGY; KNOWN FOR THE QUALITY OF OUR WORK AND EXCELLENCE OF OUR PEOPLE.

### **OBJECTIVES:**

- DEVELOP, DEMONSTRATE, AND APPLY CRITICAL TECHNOLOGIES THAT ENHANCE THE CAPABILITY, AFFORDABILITY, READINESS, AND SAFETY OF DOD AVIATION SYSTEMS.
- PROVIDE QUALITY AND TIMELY ENGINEERING SERVICES AND RAPID PROTOTYPING SUPPORT TO ARMY PROGRAM EXECUTIVE OFFICES, US SPECIAL OPERATIONS COMMAND, AND OTHER CUSTOMERS.
- SUPPORT WORLDWIDE CONTINGENCY OPERATIONS THROUGH THE EXPEDITED FABRICATION, APPLICATION, AND SUPPORT OF INOVATIVE MATERIAL SOLUTIONS.

### **AREAS OF INTEREST:**

- ADVANCED MATERIALS APPLICATIONS FOR ROTORCRAFT ENGINES AND DRIVES
- AEROMECHANICS
- COMPUTATIONAL FLUID DYNAMICS
- COCKPIT INFORMATION MANAGEMENT SYSTEMS
- FLIGHT CONTROLS/VEHICLE MANAGEMENT SYSTEMS
- HUMAN SYSTEMS INTERFACE
- RELIABIITY, MAINTAINABILITY ISSUES
- SAFETY AND SURVIVABILITY ISSUES FOR ROTORCRAFT
- STRUCTURES AND MATERIALS
- SYSTEM INTEGRATION FOR ROTORCRAFT
- TURBOSHAFT ENGINE TECHNOLOGY FOR ROTORCRAFT
- ADVANCED ROTOR/AIRFRAME DESIGN CONCEPTS
- SMART MATERIALS APPLICATIONS TO ROTOR AND AIRFRAME DESIGN
- CARGO HANDLING SYSTEMS
- GROUND SUPPORT EQUIPMENT FOR ROTORCRAFT

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### XI. SPACE AND MISSILE DEFENSE COMMAND (SMDC), HQ ARLINGTON, VA

SBIR POC: DIMITRIOS LIANOS, 256-955-3223, dimitrios.lianos@smdc.army.mil

MISSION: SMDC, AS THE ARMY SERVICE COMPONENT TO USSTRATCOM, CONDUCTS SPACE OPERATIONS AND PROVIDES PLANNING, INTEGRATION, CONTROL AND COORDINATION OF ARMY FORCES AND CAPABILITIES IN SUPPORT OF USSTRATCOM MISSIONS; SERVES AS PROPONENT FOR SPACE AND GROUND-BASED MIDCOURSE DEFENSE AND AS ARMY OPERATIONAL INTEGRATOR FOR GLOBAL MISSILE DEFENSE; CONDUCTS MISSION RELATED RESEARCH, DEVELOPMENT, AND ACQUISITION IN SUPPORT OF ARMY TITLE 10 RESPONSIBILITIES AND SERVES AS THE FOCAL POINT FOR DESIRED CHARACTERISTICS AND CAPABILITIES IN SUPPORT OF USSTRATCOM MISSIONS.

### ADVANCED TECHNOLOGY DIRECTORATE AREAS OF INTEREST:

- ELECTROMAGNETIC TECHNOLOGIES
  - RADAR PERFORMANCE IMPROVEMENTS
  - O ADVANCED COUNTER-COUNTERMEASURE TECHNOLOGY
  - O DEVELOPMENT OF A MINIATURE, ULTRA-FAST PLASMA LIMITER TO ISOLATE SENSITIVE RECEIVERS FROM ELECTRONIC WARFARE ENVIRONMENTS
- ADVANCED INTERCEPTORS
  - KINETIC ENERGY INTERCEPT, BOTH ENDOATMOSPHERICALLY AND EXOATMOSPHERICALLY
  - SIZE/WEIGHT/COST REDUCTIONS AND IMPROVE PERFORMANCE OF FUTURE SYSTEMS
  - O FUTURE WEAPON SYSTEM CONCEPT DEVELOPMENT
  - SEEKER TECHNOLOGY
  - O PROPULSION AND DIVERT ENHANCEMENT DEVICES
  - COMMUNICATIONS
  - o POWER
  - O ENHANCED WARHEAD CAPABILITIES.
- COMPUTER TECHNOLOGIES
  - O STATE-OF-THE-ART INTERFACE EFFECTORS WITH TOTAL SPECTRUM INFORMATION PRESENTATION
  - O AUTONOMOUS INTELLIGENT AGENTS
  - O SELF-LEARNING DECISION AIDS
  - O DISTRIBUTED HETEROGENEOUS HIGH-SPEED PROCESSORS AND DATABASES

# XII. SFC PAUL RAY SMITH SIMULATION AND TRAINING TECHNOLOGY CENTER (STTC), ORLANDO, FLORIDA

SBIR POC: MARK MCAULIFFE, 407-384-3929, mark.mcauliffe@us.army.mil

MISSION: PROVIDES SIMULATION EXPERTISE, RESEARCH AND TRANSITION OF SIMULATION ENABLED LEARNING TECHNOLOGIES FOR TRAINING, TEST AND TRAINING INSTRUMENTATION, MISSION PLANNING AND MISSION REHEARSAL SYSTEMS.

- REAL-TIME HUMAN-IN-THE-LOOP SIMULATION. THIS AREA INCLUDES TECHNOLOGIES THAT SUPPORT TRAINING, LEARNING AND MISSION REHEARSAL. IT INCLUDES HUMAN, AGENT, AND TEAM INTERFACES, SENSORY STIMULATION, AND TRACKING TECHNOLOGIES FOR SYSTEMS OF SYSTEMS APPROACH TO LINKED, DISTRIBUTED, OR EMBEDDED SYSTEMS
- BEHAVIORAL REPRESENTATION. ARTIFICIAL INTELLIGENCE TECHNOLOGIES ARE WIDESPREAD
  AMONG THE STTC'S MISSIONS (EMBEDDED TRAINING, MEDICAL TRAINING, AGENT SIMULATIONS,
  ADVANCED LEARNING ENVIRONMENTS, ETC.) AND INCLUDE COMPUTER-GENERATED FORCES,
  INTELLIGENT TUTORING SYSTEMS, COMPOSABLE BEHAVIOR TECHNOLOGIES, AND SIMULATION
  MANAGEMENT TECHNOLOGIES.
- SHARED SIMULATION ENVIRONMENTS. THIS AREA INCLUDES TEST AND TRAINING ENVIRONMENTS FOR MISSIONS LIKE URBAN OPERATIONS, ADVANCED LEARNING, EMBEDDED TRAINING, AND DISTRIBUTED DEVELOPMENT. IT INCLUDES TECHNOLOGIES FOR THE RAPID CONSTRUCTION OF URBAN ENVIRONMENTS AND MULTIELEVATION STRUCTURES. IT INCLUDES CROSS-DOMAIN TECHNOLOGIES LIKE AUGMENTED REALITY AND ARCHITECTURES AND STANDARDS FOR DISTRIBUTED SIMULATION ENVIRONMENTS.
- SUPPORT TRAINING TRANSFORMATION (T2). PROVIDING SIMULATION TECHNOLOGIES FOR A CAPABILITIES-BASED LEARNING ENVIRONMENT FOR THE DEPARTMENT OF DEFENSE IN SUPPORT OF NATIONAL SECURITY REQUIREMENTS. TO INCLUDE:
  - O JOINT KNOWLEDGE DEVELOPMENT AND DISTRIBUTION CAPABILITY.
  - O JOINT NATIONAL TRAINING CAPABILITY
  - JOINT ASSESSMENT AND ENABLING CAPABILITY.

### XIII. U.S. ARMY TANK AUTOMOTIVE RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER (TARDEC)

SBIR POC: ALEX SANDEL, 586-574-7545, sandela@tacom.army.mil JIM MAINERO, 586-574-8730, maineroj@tacom.army.mil

THE U.S. ARMY TANK-AUTOMOTIVE RESEARCH, DEVELOPMENT AND ENGINEERING CENTER (TARDEC) IS THE NATION'S LABORATORY FOR ADVANCED MILITARY AUTOMOTIVE TECHNOLOGY, HEADOUARTERED AT THE DETROIT ARSENAL, WARREN, MI, TARDEC IS LOCATED IN THE HEART OF THE WORLD'S AUTOMOTIVE CAPITOL.

MISSION: OUR MISSION IS TO RESEARCH, DEVELOP, ENGINEER, LEVERAGE AND INTEGRATE ADVANCED TECHNOLOGY INTO GROUND SYSTEMS AND SUPPORT EQUIPMENT THROUGHOUT THE LIFE CYCLE. TARDEC'S 1,100 ASSOCIATES DEVELOP AND MAINTAIN VEHICLES FOR ALL U.S. ARMED FORCES, MANY FEDERAL AGENCIES AND MORE THAN 60 FOREIGN COUNTRIES. TARDEC PUSHES THE STATE-OF-THE-ART IN PROGRAMS INCLUDING POWER AND ENERGY, ADVANCED COLLABORATIVE ENVIRONMENTS, ROBOTICS, ELECTRIC DRIVE AND EMBEDDED SIMULATION TO PROVIDE THE ARMY WITH THE MATERIEL SOLUTIONS IT DEMANDS.

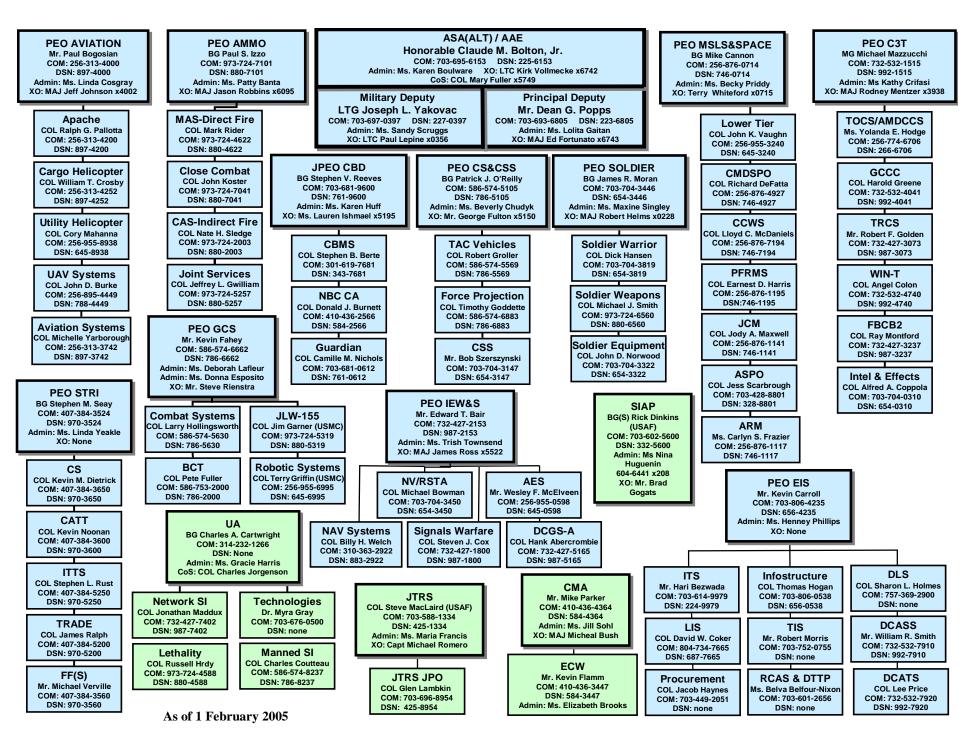
- ADVANCED AUTOMOTIVE TECHNOLOGY
- MILITARY GROUND VEHICLES
- TANK AUTOMOTIVE LABORATORIES
- AUTOMOTIVE BASED PROPULSION SYSTEMS
- PETROLEUM AND WATER TECHNOLOGIES
- HIGH PERFORMANCE COMPUTING AND SIMULATION
- **COMBAT VEHICLES**
- TACTICAL VEHICLES
- **TRAILERS**
- MATERIEL HANDLING EQUIPMENT
- CONSTRUCTION EQUIPMENT
- **TACTICAL BRIDGES**
- FUEL & WATER DISTRIBUTION SYSTEMS
- PETROLEUYM & LUBRICATION EQUIPMENT
- WATERCRAFT
- **RAIL**

### XIV. U.S. ARMY TEST AND EVALUATION COMMAND (ATEC), ABERDEEN PROVING GROUND, MD

SBIR POC: CURTIS COHEN, 410-278-1376, curtis.cohen@dtc.army.mil

MISSION: THE U.S. ARMY DEVELOPMENTAL TEST COMMAND (DTC) IS THE DEVELOPMENTAL TEST ARM OF THE U.S. ARMY TEST AND EVALUATION COMMAND (ATEC). DTC IS THE ARMY'S PREMIER MATERIAL DEVELOPMENTAL TESTING ORGANIZATION FOR WEAPONS AND EQUIPMENT. DTC OFFERS A FULL RANGE OF TEST SERVICES, INCLUDING PROVIDING UNBIASED TEST DATA ON THE TECHNICAL FEASIBILITY OF EARLY CONCEPTS, DETERMINING SYSTEMS PERFORMANCE AND SAFETY, ASSESSING TECHNICAL RISKS DURING SYSTEM DEVELOPMENT, CONFIRMING DESIGNS, AND VALIDATING MANUFACTURERS' FACILITIES AND PROCESSES AT BOTH SYSTEM AND COMPONENT LEVEL. ITS TESTING SERVICES ARE EXTENDED TO ALL OF DOD, OTHER FEDERAL AGENCIES, STATE AND LOCAL GOVERNMENTS, FOREIGN AND ALLIED GOVERNMENTS AND, PRIVATE INDUSTRY.

- PROVIDES DEVELOPMENTAL TESTING FOR ARMY SYSTEMS IN ALL ENVIRONMENTS, PROVIDES SYSTEM SAFETY VERIFICATION PRIOR TO TEST/USE BY THE SOLDIER, DEVELOPS TEST TECHNOLOGY, AND MANAGES 11 TEST CENTERS/SITES.
- ABERDEEN TEST CENTER, ABERDEEN PROVING GROUND, MD -- DIRECT FIRE, LIVE FIRE, VEHICLES, SMALL ARMS, GENERAL EQUIPMENT, AND INDIVIDUAL EQUIPMENT TESTING
- REDSTONE TECHNICAL TEST CENTER, REDSTONE ARSENAL, AL SMALL MISSILES, ROCKETS, GUIDANCE SYSTEMS, LIGHTNING EFFECTS, HIGH EXPLOSIVE WARHEAD & FUZE TESTING
- AVIATION TECHNICAL TEST CENTER, FORT RUCKER, AL -- AIRCRAFT SYSTEMSAND AIRWORTHINESS TESTING
- WHITE SANDS MISSILE RANGE, NM MISSILE, BALLISTIC MISSILE DEFENSE, NUCLEAR EFFECTS, AND ELECTRONIC WARFARE SYSTEMS TESTING
- WSMR-ELECTRONIC PROVING GROUND & SATELLITES
  - O ELECTRONIC PROVING GROUND, FORT HUACHUCA, AZ COMMAND, CONTROL, & COMMUNICATIONS (C3) AND ELECTROMAGNETIC EFFECTS TESTING
  - O EPG FORT LEWIS FIELD OFFICE, FORT LEWIS, WA -- SOFTWARE TESTING
  - O EPG FORT HOOD FIELD OFFICE, FORT HOOD, TX -- C3I TESTING
- DUGWAY PROVING GROUND, UT -- CHEMICAL/BIOLOGICAL DEFENSE SYSTEMS TESTING
- YUMA PROVING GROUND & SATELLITES, YUMA, AZ -- INDIRECT FIRE, AIR DELIVERY, AIR ARMAMENTS, MINES/COUNTERMINES, AND NATURAL ENVIRONMENTS EFFECTS TESTING
  - O COLD REGIONS TEST CENTER, FORT GREELY, AK COLD WEATHER EFFECTS TESTING
  - O TROPIC TEST SITE, HI HOT/WET ENVIRONMENTAL EFFECTS TESTING
- TEST TECHNOLOGY DEVELOPMENT, ACQUISITION, AND SUSTAINMENT



### XV. PEO AMMUNITION

SBIR POC: ROBIN GULLIFER, 973-724-7817, robin.gullifer@us.army.mil

JESSICA WOO, 973-724-4908, jessica.woo@us.army.mil

### A. PM CLOSE COMBAT SYSTEMS

MISSION: MAINTAINING FREEDOM TO MOVE ON THE BATTLEFIELD IS MISSION-ESSENTIAL FOR ARMY GROUND FORCES. THE VISION AND MISSION OF PM CLOSE COMBAT SYSTEMS IS TO ENSURE THAT SOLDIERS HAVE THIS CAPABILITY BY DEVELOPING AND SUPPORTING TECHNOLOGICALLY ADVANCED IN NETWORKED MUNITIONS, COUNTERMINE, DEMOLITIONS, PROTECT FORCE, EXPLOSIVE ORDNANCE DISPOSAL EQUIPMENT, GRENADES, PYROTECHNICS, AND SHOULDER LAUNCHED MUNITIONS.

### **AREAS OF INTEREST:** TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- NETWORKED MUNITIONS
- COUNTERMINE SYSTEMS AND EXPLOSIVE ORDNANCE DISPOSAL EQUIPMENT
- DEMOLITIONS
- NON-LETHAL SYSTEMS AND MUNITIONS
- GRENADES
- PYROTECHNICS
- SHOULDER LAUNCHED MUNITIONS

### B. PM COMBAT AMMUNITION SYSTEMS-INDIRECT FIRE

MISSION: PM COMBAT AMMUNITION SYSTEMS (PM CAS) PERFORMS LIFE-CYCLE MANAGEMENT OF GUNLAUNCHED INDIRECT FIRE MUNITIONS, MORTAR WEAPONS AND MORTAR FIRE CONTROL SYSTEMS INCLUDING RELATED FUZES, FUZE SETTERS, PROPELLANTS, EXPLOSIVE FILLS, SOFTWARE, HARDWARE AND ELECTRONICS. LIFE-CYCLE MANAGEMENT INCLUDES DEVELOPMENT, INTEGRATION, TEST, PRODUCTION, REMANUFACTURING, AND SUSTAINMENT. PM CAS' VISION IS TO DELIVER CONVENTIONAL AND LEAP-AHEAD MUNITIONS COMBAT POWER TO WARFIGHTERS, GIVING THEM THE MATERIEL EDGE OVER OUR NATION'S REAL AND POTENTIAL ADVERSARIES.

### AREAS OF INTEREST: TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- PRECISION-GUIDED MUNITIONS
- SMART MUNITIONS
- CONVENTIONAL MUNITIONS
- MORTAR WEAPON SYSTEMS
- MORTAR FIRE CONTROL SYSTEMS
- FUZES AND FUZE SETTERS

### C. PM JOINT SERVICES

MISSION: THE VISION OF PM JOINT SERVICES (PM JS) IS TO CREATE AN ACQUISITION "PIPELINE" THAT RAPIDLY PROVIDES THE WARFIGHTER WITH CONVENTIONAL AMMUNITION. THIS NECESSITATES AN ACQUISITION APPROACH THAT DELIVERS RAPID, AFFORDABLE CONVENTIONAL AMMUNITION AND IS FLEXIBLE, RESPONSIVE AND PROACTIVE WHILE IMPROVING THE HEALTH OF THE INDUSTRIAL BASE AND MEETS AND EXCEEDS THE SERVICES EXPECTATIONS. CONTINUAL IMPROVEMENT TO THE CUSTOMERS TOTAL MUNITIONS DELIVERY TIME, INCLUDING ACQUISITION AND PRODUCTION CYCLE TIME, IS AN OVERARCHING OBJECTIVE OF PM JS.

- PROCUREMENT OF OTHER SERVICES' UNIQUE CONVENTIONAL AMMUNITION (E.G., BOMBS, PYROTECHNICS, PROPELLANTS, NAVY GUN AMMO, EXPLOSIVES)
- DEMILITARIZATION OF CONVENTIONAL AMMUNITION
- EXECUTION OF SMCA INDUSTRIAL BASE FUNCTIONS

### XV. PEO AMMUNITION (CONTINUED)

SBIR POC: ROBIN GULLIFER, 973-724-7817, robin.gullifer@us.army.mil

JESSICA WOO, 973-724-4908, jessica.woo@us.army.mil

### D. PM MANEUVER AMMUNITION SYSTEMS-DIRECT FIRE

MISSION: THE MISSION OF PM MANEUVER AMMUNITION SYSTEMS (PM MAS) IS TO EQUIP WARFIGHTERS, MOUNTED AND DISMOUNTED, WITH ALL CALIBERS OF DIRECT FIRE AMMUNITION FOR THE ARMY'S CURRENT, STRYKER, AND FUTURE FORCES. UNDER THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION RESPONSIBILITIES, PM MAS ALSO PROCURES AMMUNITION FOR THE NAVY, AIR FORCE, AND MARINES. PM MAS PROVIDES AMMUNITION FOR GROUND COMBAT PLATFORMS, HELICOPTERS, SHIPS, AND HIGH PERFORMANCE AIRCRAFT. THE PM DOES THIS THROUGH LIFE CYCLE PROGRAM MANAGEMENT OF SMALL, MEDIUM, AND LARGE CALIBER AMMUNITION TO INCLUDE SMART MUNITIONS.

AREAS OF INTEREST: TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- SMALL CALIBER
- MEDIUM CALIBER
- LARGE CALIBER
- SMART MUNITIONS

### XVI. PEO AVIATION

SBIR POC: ODIS NICKOLES, 256-313-4976, odis.nickoles@peoavn.redstone.army.mil

### A. PM APACHE ATTACK HELICOPTER

MISSION: PM APACHE ATTACK HELICOPTER IS RESPONSIBLE FOR PLANNING, DIRECTING, AND CONTROLLING ALL PHASES OF RESEARCH, DEVELOPMENT, PROCUREMENT, PRODUCTION, DISTRIBUTION, LOGISTIC SUPPORT, FIELDING, AND FISCAL AND BUDGET MANAGEMENT REQUIRED FOR THE AH-64A APACHE AND AH-64D LONGBOW ADVANCED ATTACK HELICOPTERS.

### **B. PM AVIATION SYSTEMS**

MISSION: PM AVIATION SYSTEMS (PM AS) IS CHARGED WITH RESPONSIBILITY FOR THE PROGRAM LIFE CYCLE MANAGEMENT FOR ALL LEGACY SCOUT ATTACK HELICOPTERS; FIXED WING AIRCRAFT; AIR TRAFFIC CONTROL (ATC) SYSTEMS; AVIATION GROUND SUPPORT EQUIPMENT (AGSE); AND AVIATION MISSION EQUIPMENT (AME). IN ADDITION, OTHER RESPONSIBILITIES OF PM AS INCLUDE OPERATIONS OF THE ARMY'S AVIATION CORROSION CONTROL AND NON-DESTRUCTIVE TESTING CENTERS OF EXCELLENCE (COE) WITHIN AGSE, AND THE DEVELOPMENT, COORDINATION, AND MANAGEMENT OF ALL AVIATION DIGITIZATION PROGRAMS.

### C. PM CARGO HELICOPTER

MISSION: THE MISSION OF PM CARGO HELICOPTER IS TO ESTABLISH AND MAINTAIN A DYNAMIC LEARNING ORGANIZATION WHICH PROVIDES THE WARFIGHTERS WITH AFFORDABLE WORLD CLASS HEAVY LIFT CARGO HELICOPTERS AND RELATED SERVICE WHICH ARE CONTINUALLY IMPROVED TO MEET USER NEEDS WHILE BALANCING LIFE CYCLE COST REDUCTIONS WITH INCREASES IN OPERATIONAL READINESS. PM CARGO HELICOPTER IS RESPONSIBLE FOR THE LIFE CYCLE PLANNING, DIRECTION, EXECUTION, AND CONTROL OF TASKS AND DESIGNATED ASSOCIATED RESOURCES INVOLVED IN DEPLOYMENT, QUALIFICATION, TEST, PRODUCTION, SUSTAINMENT, DISTRIBUTION, AND LOGISTICS SUPPORT OF THE WORLDWIDE CH-47 FLEET.

### D. PM UNMANNED AERIAL VEHICLE SYSTEMS

MISSION: THE MISSION OF PM UNMANNED AERIAL VEHICLE SYSTEMS (PM UAVS) IS TO PROVIDE A TOTAL ARMY PERSPECTIVE FOR THE LIFE CYCLE MANAGEMENT OF THE ARMY'S UNMANNED AERIAL VEHICLE (UAV) PROGRAM INCLUDING DEVELOPMENT, ACQUISITION, TESTING, SYSTEMS INTEGRATION, PRODUCT IMPROVEMENTS, PRODUCTION, FIELDING, AND LOGISTICAL SUPPORT. PM UAVS DIRECTLY SUPPORTS THE CORE MISSION OF ARMY UNMANNED AERIAL VEHICLES TO PROVIDE TACTICAL COMMANDERS NEAR-REAL TIME, HIGHLY ACCURATE, RECONNAISSANCE, SURVEILLANCE AND TARGET ACQUISITION. THIS MISSION IS GROWING TO INCLUDE WEAPONIZATION, COMMUNICATIONS RELAY, SPECIALTY PAYLOADS, SMALL UNMANNED AERIAL VEHICLES, AND THE LINKAGE TO MANNED AIRCRAFT.

### E. PM UTILITY HELICOPTERS

MISSION: THE UH-60 IS THE ARMY'S UTILITY HELICOPTER. THE BLACK HAWK IS USED FOR MULTIPLE COMBAT MISSIONS IN SUPPORT OF THE JOINT FORCE COMMANDER. ITS PRIMARY MISSION, AIR ASSAULT, TRANSPORTS INFANTRY SOLDIERS AND LIGHT ARTILLERY DIRECTLY INTO BATTLE POSITIONS. IN ITS GENERAL SUPPORT ROLE, THE BLACK HAWK IS USED TO MOVE PERSONNEL AND CARGO ACROSS ALL ECHELONS OF THE BATTLEFIELD, FROM THE FRONT LINES TO THE REAR AREAS. THE UH-60 WILL ALSO SERVE AS THE HOST AIRCRAFT FOR THE NEW ARMY AIRBORNE COMMAND AND CONTROL SYSTEM (A2C2S). IN SPECIAL OPERATIONS, THE MH-60 PLATFORM IS USED AS BOTH AN ASSAULT AND ARMED DEFENSIVE AIRCRAFT. THE UH-60 IS INTEROPERABLE WITH JOINT FORCES, AND IS IN USE IN THE NAVY AND AIR FORCE.

# XVII. JPEO CHEMICAL BIOLOGICAL DEFENSE (CBD)

# SBIR POC: LARRY POLLACK, 703-325-9664, larry.pollack@dtra.mil

Joint Science and Technology Office for Chemical and Biological Defense (JSTO-CBD)

THE JOINT SCIENCE AND TECHNOLOGY OFFICE FOR CHEMICAL AND BIOLOGICAL DEFENSE (JSTO-CBD) PROVIDES THE MANAGEMENT FOR THE SCIENCE AND TECHNOLOGY COMPONENT OF THE CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM (CBDP). TECHNOLOGIES DEVELOPED UNDER THE SBIR PROGRAM HAVE THE POTENTIAL TO TRANSITION TO THE JOINT PROGRAM EXECUTIVE OFFICE FOR CHEMICAL AND BIOLOGICAL DEFENSE (JPEO-CBD) WHEN THE APPROPRIATE LEVEL OF TECHNOLOGY MATURITY HAS BEEN DEMONSTRATED. THE JSTO-CBD SCIENCE & TECHNOLOGY PROGRAMS AND INITIATIVES ARE IMPROVING DEFENSIVE CAPABILITIES AGAINST CHEMICAL AND BIOLOGICAL WEAPONS.

## A. JPM CHEMICAL BIOLOGICAL MEDICAL SYSTEMS

MISSION: THE CHEMICAL BIOLOGICAL MEDICAL SYSTEMS JOINT PROJECT MANAGEMENT OFFICE (CBMS-JPMO) IS RESPONSIBLE FOR THE DEVELOPMENT, PROCUREMENT, FIELDING, AND SUSTAINING OF PREMIER MEDICAL PROTECTION AND TREATMENT CAPABILITIES AGAINST CHEMICAL AND BIOLOGICAL WARFARE AGENTS. THE PRODUCTS OF CBMS-JPMO ARE ALL SUBMITTED THROUGH THE U.S. FOOD AND DRUG ADMINISTRATION (FDA) LICENSING OR APPROVAL PROCESSES. CBMS-JPMO IS COMPRISED OF A HEADQUARTERS AND SUPPORT ELEMENT AND TWO JOINT PRODUCT MANAGEMENT OFFICES: THE JOINT VACCINE ACQUISITION PROGRAM (JVAP) AND THE MEDICAL IDENTIFICATION AND TREATMENT SYSTEMS (MITS).

## AREAS OF INTEREST:

- ANTHRAX VACCINE ABSORBED
- NEXT GENERATION ANTHRAX VACCINE
- PLAGUE VACCINE
- RECOMBINANT BOTULINUM BIVALENT (AB) VACCINE (rBOT AB)
- SMALLPOX VACCINE
- TULAREMIA VACCINE
- VENEZUALEAN EQUINE ENCEPHALITIS V3526 VACCINE
- VACCINIA IMMUNE GLOBULIN, INTRAVENOUS
- ADVANCED ANTICONVULSANT SYSTEM
- ANTIDOTE TREATMENT NERVE AGENT, AUTOINJECTOR
- CONVULSANT ANTIDOTE FOR NERVE AGENTS
- CRITICAL REAGENTS PROGRAM
- JOINT BIOLOGICAL AGENT IDENTIFICATION AND DIAGNOSTIC SYSTEM
- MEDICAL AEROSOLIZED NERVE AGENT ANTIDOTE
- SKIN EXPOSURE REDUCTION PASTE AGAINST CHEMICAL WARFARE AGENTS
- SOMAN NERVE AGENT PRETREATMENT PYRIDOSTIGMINE

## **B. JPM COLLECTIVE PROTECTION**

MISSION: IF UNITS ARE ATTACKED OR ARE FORCED TO OCCUPY OR TRAVERSE CHEMICAL/BIOLOGICAL CONTAMINATED ENVIRONMENTS, INDIVIDUAL AND COLLECTIVE PROTECTION SYSTEMS PROVIDE THE WARFIGHTER LIFE-SUSTAINING AND CONTINUED OPERATIONAL CAPABILITIES. COLLECTIVE PROTECTION EQUIPMENT INCLUDES TWO GENERAL CATEGORIES: STAND-ALONE SHELTERS AND INTEGRATED SYSTEMS THAT PROVIDE CONTAMINATION-FREE, ENVIRONMENTALLY-CONTROLLED SURROUNDINGS FOR PERSONNEL TO PERFORM THEIR MISSIONS. COLLECTIVE PROTECTION CAN BE APPLIED TO MOBILE AND FIXED COMMAND POSTS, MEDICAL FACILITIES, REST AND RELIEF SHELTERS, BUILDINGS/FIXED SITES, VEHICLES, AIRCRAFT, AND SHIPS.

- STAND ALONE SHELTERS
- INTEGRATED SYSTEMS (SHIPBOARD COLLECTIVE PROTECTION EQUIPMENT/SYSTEMS, FILTER UNITS)

# XVII. JPEO CHEMICAL BIOLOGICAL DEFENSE (CBD) (CONTINUED)

SBIR POC: LARRY POLLACK, 703-325-9664, larry.pollack@dtra.mil

# C. JPM DECONTAMINATION

MISSION: IN THE EVENT THAT CONTAMINATION CANNOT BE AVOIDED, PERSONNEL AND EQUIPMENT MUST BE DECONTAMINATED IN ORDER TO REDUCE AND/OR ELIMINATE HAZARDS AFTER CHEMICAL AND BIOLOGICAL AGENT EMPLOYMENT. A FAMILY OF DECONTAMINANTS AND APPLICATORS, EQUIPMENT, AND PROCEDURES ARE UNDER DEVELOPMENT FOR DECONTAMINATING MISSION CRITICAL AREAS WITHIN LARGE AREA PORTS, AIRFIELDS, AND OTHER FIXED SITES, WHICH MAY BE TARGETED FOR PERSISTENT AGENT CONTAMINATION. DECONTAMINATION SYSTEMS PROVIDE THE JOINT FORCE A REGENERATION CAPABILITY FOR UNITS THAT BECOME CONTAMINATED. MODULAR DECONTAMINATION SYSTEMS HAVE BEEN DEVELOPED TO PROVIDE DECONTAMINATION UNITS WITH THE CAPABILITY TO TAILOR THEIR EOUIPMENT TO SUPPORT SPECIFIC MISSIONS.

#### **AREAS OF INTEREST:** TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- SENSITIVE EQUIPMENT DECONTAMINATION
- DECON APPARATUSES: PORTABLE
- CHEMICAL AND BIOLOGICAL DECONTAMINATION/APPLICATION SYSTEMS FOR EQUIPMENT, WOUNDED AND NON-WOUNDED PERSONNEL

# D. JPM GUARDIAN

MISSION: THE MISSION OF JPM GUARDIAN IS TO: PROVIDE AN EFFECTIVE CHEMICAL, BIOLOGICAL, RADIOLOGICAL, AND NUCLEAR (CBRN) PROTECTION, DETECTION, IDENTIFICATION AND WARNING SYSTEM FOR INSTALLATION PROTECTION, ENSURE INTEGRATION OF CBRN NETWORK WITH EXISTING COMMAND, CONTROL, COMMUNICATIONS, INTELLIGENCE (C3I) CAPABILITIES TO PROVIDE EFFECTIVE INFORMATION MANAGEMENT, PROVIDE A CAPABILITY THAT WILL ALLOW FOR RAPID RESTORATION OF CRITICAL INSTALLATION OPERATIONS, PROTECT DOD CIVILIANS, CONTRACTORS AND OTHER PERSONS WORKING OR LIVING ON U.S. MILITARY INSTALLATIONS AND FACILITIES, AND EQUIP AND SUPPORT COALITION SUPPORT TEAMS, INSTALLATION SUPPORT TEAMS, REGIONAL RESPONSE TEAMS AND RECON/DECON TEAMS.

## AREAS OF INTEREST:

- <u>UNIFIED COMMAND SUITE VEHICLE</u>: SELF-CONTAINED, STAND-ALONE C-130 AIR MOBILE COMMUNICATIONS PLATFORM INTENDED TO PROVIDE BOTH VOICE AND DATA COMMUNICATIONS CAPABILITIES TO CIVIL SUPPORT TEAM COMMANDERS
- ANALYTICAL LABORATORY SYSTEM: C-130 AIR TRANSPORTABLE SYSTEM THAT USES COMMERCIAL-OFF-THE-SHELF (COTS) EQUIPMENT THAT CAN ANALYZE CHEMICAL WARFARE AGENTS, TOXIC INDUSTRIAL MATERIALS, TOXIC INDUSTRIAL CHEMICALS AND BIOLOGICAL WARFARE AGENTS

## E. JPM INDIVIDUAL PROTECTION

MISSION: THE CHEMICAL BIOLOGICAL DEFENSE PROGRAM (CBDP) IS PURSUING MASK TECHNOLOGIES THAT PROVIDE GREATER USER COMFORT, REDUCE BREATHING RESISTANCE, AND IMPROVE COMPATIBILITY WITH COMBAT WEAPON SYSTEMS; AND SUIT TECHNOLOGIES THAT WILL RESULT IN LIGHTER, LESS BURDENSOME, BUT EQUALLY PROTECTIVE NEXT GENERATION SUITS FOR GROUND AND AVIATION PERSONNEL. ALSO, THE CBDP PURSUES TECHNOLOGY ADVANCES THAT IMPROVE GENERIC CHEMICAL BIOLOGICAL PROTECTIVE FILTERS AND FANS, AND ADVANCES THAT REDUCE WEIGHT, VOLUME, COST, LOGISTICS, AND MANPOWER REQUIREMENTS.

- PROTECTIVE SUITES (JOINT SERVICE LIGHTWEIGHT INTEGRATED SUIT TECHNOLOGY ENSEMBLE, JOINT PROTECTIVE AIRCREW ENSEMBLE)
- PROTECTIVE MASKS AND MASK TESTERS

• PROTECTIVE BOOTS, SOCKS AND GLOVES

# XVII. JPEO CHEMICAL BIOLOGICAL DEFENSE (CBD) (CONTINUED)

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# F. JPM INFORMATION SYSTEMS

MISSION: THE MISSION OF THE JPM INFORMATION SYSTEMS (JPM-IS) IS TO PROVIDE THE INFORMATION ARCHITECTURE AND APPLICATIONS FOR SHAPING THE BATTLE SPACE AGAINST THE CHEMICAL AND BIOLOGICAL THREAT. THE JPM-IS PROVIDES THE WARFIGHTER WITH INTEGRATED EARLY WARNING CAPABILITY, AN ACCREDITED HAZARD PREDICTION MODEL, STATE-OF-THE-ART CONSEQUENCE MANAGEMENT, AND COURSE OF ACTION ANALYSIS TOOLS.

## **AREAS OF INTEREST:** TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- PREDICTION AND TRACKING OF NUCLEAR, BIOLOGICAL, CHEMICAL AND TOXIC INDUSTRIAL CHEMICAL/MATERIAL EVENTS AND EFFECTS
- PROVIDE AN OPERATIONAL REQUIREMENTS MODELING AND SIMULATION SYSTEM TO ENABLE WARFIGHTERS AND WAR PLANNERS TO ACCURATELY PREDICT CHEMICAL/BIOLOGICAL ENVIRONMENT EFFECTS ON PERSONNEL, EQUIPMENT AND OPERATIONS
- PROVIDE THE JOINT FORCES WITH A COMPREHENSIVE ANALYSIS AND RESPONSE CAPABILITY TO MINIMIZE THE EFFECTS OF HOSTILE NUCLEAR, BIOLOGICAL, AND CHEMICAL ATTACKS AS WELL AS ACCIDENTS AND INCIDENTS

# G. JPM NUCLEAR, BIOLOGICAL AND CHEMICAL CONTAMINATION AVOIDANCE

MISSION: THE GOAL OF BATTLE SPACE CONTAMINATION AVOIDANCE IS TO PROVIDE A REAL-TIME CAPABILITY TO DETECT, IDENTIFY, MAP, QUANTIFY, AND AVOID BIOLOGICAL AND/OR CHEMICAL AGENTS, INCLUDING SELECTED TOXIC INDUSTRIAL CHEMICALS/MATERIALS (TICS/TIMS).

- NUCLEAR, BIOLOGICAL AND CHEMICAL RECONNAISSANCE SYSTEMS
- BATTLEFIELD MANAGEMENT SYSTEMS
- CHEMICAL/NUCLEAR DETECTION SYSTEMS
- OBSCURATION SYSTEMS
- BIOLOGICAL DETECTION SYSTEMS

# XVIII. PEO COMBAT SUPPORT AND COMBAT SERVICE SUPPORT (CS&CSS)

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# A. PM COMBAT SYSTEMS SUPPORT

MISSION: PM COMBAT SYSTEMS SUPPORT (PM CSS) WAS ESTABLISHED AS PART OF THE EXTENSIVE REORGANIZATION OF PROGRAM MANAGEMENT RESPONSIBILITIES THROUGHOUT THE ARMY. PM CSS IS CHARTERED TO MANAGE THE SYSTEMS ACQUISITION PROCESS (INCLUDING RESEARCH/DEVELOPMENT, ACQUISITION, FIELDING AND SUSTAINMENT) OF THE FOLLOWING PRODUCT MANAGEMENT OFFICES: DOD PM MOBILE ELECTRIC POWER, PM SETS, KITS, OUTFITS, AND TOOLS, AND PM TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT.

# AREAS OF INTEREST: TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- MOBILE ELECTRIC POWER SYSTEMS
- SOLDIER PORTABLE SETS (BATTLE DAMAGE ASSESSMENT AND REPAIR KIT, EXPLOSIVE ORDNANCE AND DISPOSAL KITS, INDIVIDUAL AIRCRAFT ARMAMENT REPAIR TOOL SET)
- MODULAR SHOP SETS (STANDARD AUTOMOTIVE TOOL SET, FORWARD REPAIR SYSTEM, BATTALION MAINTENANCE SET, GLASS AND CANVAS SHOP SET)
- MOBILE SHOP SETS (BODY, EXPLOSIVE ORDNANCE DISPOSAL, SHOP EQUIPMENT WELDING, WOODWORKING SHOP SET)
- SHOP SUPPORT EQUIPMENT (MILLING MACHINES, WELDING MACHINES, ENGINE LATHES)
- DIVING EQUIPMENT (INDIVIDUAL SWIMMER SUPPORT SET, DIVERS UNDERWATER PHOTO SUPPORT SET, SWIMMER SUPPORT SET, OPEN CIRCUIT SCUBA SET)
- TEST, MEASUREMENT, DIAGNOSTIC AND CALIBRATION EQUIPMENT

# **B. PM FORCE PROJECTION**

MISSION: THE PM FORCE PROJECTION (PM FP) LEADS THE ACQUISITION COMPONENT OF A FULLY INTEGRATED TEAM THAT DEVELOPS, PRODUCES, FIELDS AND SUSTAINS WORLD-CLASS MATERIEL SOLUTIONS TO MEET CURRENT AND FUTURE SUPPORT REQUIREMENTS OF THE U.S. MILITARY ACROSS THE OPERATIONAL SPECTRUM. THE VISION OF PM FP IS TO BE RECOGNIZED AS EXPERTS IN COMMERCIAL OFF THE SHELF & NON-DEVELOPMENTAL ITEMS (CANDI) ACQUISITION, LOGISTICS AND TECHNOLOGY.

# AREAS OF INTEREST: TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- ARMY WATERCRAFT SYSTEMS (LANDING CRAFT, LOGISTIC SUPPORT VESSEL)
- CONSTRUCTION AND MATERIALS HANDLING EQUIPMENT (CRANES, CONSTRUCTION PLANTS AND EQUIPMENT, GRADERS AND SCRAPERS)
- FORCE SUSTAINMENT SYSTEMS (AERIAL DELIVERY EQUIPMENT, SHELTER SYSTEMS, FIELD FEEDING SYSTEMS)
- DEVELOPMENT, PRODUCTION, FIELDING AND SUSTAINMENT OF PETROLEUM AND WATER SYSTEMS

# C. PM TACTICAL VEHICLES

MISSION: PM TACTICAL VEHICLES (PM TV) IS COMMITTED TO THE GOALS AND PERFORMANCE OF A JOINT EXPEDITIONARY FORCE, FOCUSING ON INCREASING THE RELEVANCE AND READINESS OF OUR TACTICAL WHEELED VEHICLE (TWV) FLEET, AND ENSURING THAT THE BEST POSSIBLE PRODUCT IS AVAILABLE TO SUPPORT THE CURRENT FORCE AND BEYOND. THE CURRENT TWV FLEET IS COMPOSED OF THE M915, PLS, HET, HEMTT, FMTV, AND HMMWV FAMILY OF VEHICLES, AS WELL AS ALL ASSOCIATED TRAILERS. PM TV PURSUES TECHNOLOGY THAT WILL IMPROVE THE CAPABILITIES OF THE CURRENT FLEET WITH THE RIGHT PRODUCTS AT THE RIGHT TIME FOR THE RIGHT PRICE.

- TACTICAL VEHICLES (ARMORED SECURITY VEHICLES, HEAVY EQUIPMENT TRANSPORTER SYSTEM)
- TRAILERS (DOLLY SETS, SELF-LOAD/OFF-LOAD TRAILER, SEMI-TRAILERS)

# XIX. PEO COMMAND, CONTROL AND COMMUNICATIONS TACTICAL (C3T)

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**AREAS OF INTEREST:** TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- TACTICAL SATELLITE GROUND AND COMMERCIAL TERMINAL PROGRAMS
- TACTICAL AND PORTABLE SATELLITE COMMUNICATIONS TERMINALS
- SOFTWARE PROGRAMMABLE AND HARDWARE CONFIGURABLE DIGITAL RADIO NETWORKING SYSTEM
- COMMUNICATIONS SYSTEM FOR RELIABLE, SECURE, AND SEAMLESS VIDEO, DATA, IMAGERY, AND VOICE SERVICES
- TERRAIN ANALYSIS, IMAGE MAPS, BATTLEFIELD DATA AND TOPOGRAPHIC INFORMATION
- GENERATION OF A VARIETY OF MOBILITY, VISIBILITY, AND SPECIAL PURPOSE TACTICAL DECISION AIDS
- FILE ACCESS, FILE MANAGEMENT, DATABASE ACCESS, AND DATABASE MANAGEMENT
- FORWARD ENTRY DEVICES
- HANDHELD C2 AND WIRELESS TECHNOLOGIES
- GEO-REFERENCING SOFTWARE
- TACTICAL RADIOS
- AREA COMMON USER SYSTEM
- NETWORK OPERATIONS SYSTEMS

# A. OFFICE OF CENTRAL TECHNICAL SUPPORT FACILITY

MISSION: THE MISSION OF HQ OFFICE OF CENTRAL TECHNICAL SUPPORT FACILITY (CTSF) IS TO BE THE ENABLER FOR RAPID INTEGRATION OF DISSIMILAR SOFTWARE AND HARDWARE THROUGH "REAL-TIME" INTERACTION WITH SOLDIERS, CONTRACTORS, TESTERS, PROGRAM MANAGERS, AND THE REQUIREMENTS COMMUNITY. CTSF PROVIDES TECHNICAL INTEGRATION, COMPREHENSIVE TESTING, CONFIGURATION CONTROL, TRAINING, AND FIELD SUPPORT TO THE TECHNOLOGIES COMPRISING THE ARMY'S DIGITAL SYSTEMS.

## B. PM FORCE XXI BATTLE COMMAND BRIGADE AND BELOW

MISSION: THE MISSION OF PM FORCE XXI BATTLE COMMAND BRIGADE AND BELOW (PM FBCB2) IS TO FIELD A DIGITAL COMMAND AND CONTROL SYSTEM THAT PROVIDES BATTLE COMMAND AND SITUATIONAL AWARENESS INFORMATION FROM BRIGADE DOWN TO THE SOLDIER/PLATFORM LEVEL. FBCB2 IS A SOFTWARE AND HARDWARE SYSTEM THAT EXTENDS THE BATTLE SPACE FROM THE TRADITIONAL LINE OF SIGHT DATA PROVIDED EITHER VISUALLY OR BY RADIO TO AN EXTENDED RANGE WITH BROADCAST ENTITY MESSAGES AND AUTOMATIC POSTING TO MAP DISPLAY AND CONTINUOUSLY UPDATES A COMMON PICTURE OF THE BATTLEFIELD. MAKING THE FORCE SMARTER WITH BETTER SITUATIONAL AWARENESS AND IMPROVED COMMAND AND CONTROL CAPABILITY.

# C. PM GROUND COMBAT COMMAND AND CONTROL

MISSION: THE MISSION OF PM GROUND COMBAT COMMAND AND CONTROL (PM GCC2) IS TO DEVELOP, TEST, INTEGRATE, PROCURE AND FIELD KEY COMMAND AND CONTROL PRODUCTS INTEGRAL TO THE ARMY BATTLE COMMAND AND CONTROL SYSTEM (ABCS). THE PRODUCTS INCLUDE THE GLOBAL COMMAND AND CONTROL SYSTEM - ARMY (GCCS-A) WHICH PROVIDES ABCS LINKAGE TO JOINT AND COALITION FORCES, THE MANEUVER CONTROL SYSTEM (MCS) WHICH PROVIDES THE ABCS MANEUVER FUNCTIONALITY, THE BATTLE COMMAND SUSTAINMENT SUPPORT SYSTEM (BCS3) WHICH PROVIDES THE SUSTAINMENT SUPPORT SEGMENT OF ABCS, THE COMBAT TERRAIN INFORMATION SYSTEMS (CTIS) WHICH PROVIDES THE TERRAIN SEGMENT OF ABCS, AND THE COMMON SOFTWARE (CS) PRODUCT OFFICE DEVELOPS THE ARMY'S PORTION OF COMMON OPERATING ENVIRONMENT (COE) SOFTWARE PRODUCTS AND THE COMMON INFRASTRUCTURE AND FOUNDATION PRODUCTS FOR ABCS COMMAND AND CONTROL.

## XIX. PEO COMMAND, CONTROL AND COMMUNICATIONS TACTICAL (C3T) (CONTINUED

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# D. PM INTELLIGENCE AND EFFECTS

MISSION: THE MISSION OF PM INTELLIGENCE AND EFFECTS IS TO MEET THE WARFIGHTER'S NEED FOR TIMELY, ACCURATE, AND RELEVANT INTELLIGENCE BY IMPROVING THE PROCESSING, ANALYSIS AND DISSEMINATION OF INTELLIGENCE PRODUCTS IN THE FUNCTIONAL AREAS OF: TARGETING, COLLECTION MANAGEMENT, ELECTRONIC WARFARE/ELECTRONIC COUNTERMEASURES, IMAGERY INTELLIGENCE, COMBAT/HUMAN INTELLIGENCE, OPERATIONAL SECURITY, AND WEATHER.

# E. PM TACTICAL OPERATIONS CENTER/AIR AND MISSILE DEFENSE COMMAND AND CONTROL SYSTEMS

MISSION: PM TACTICAL OPERATIONS CENTER/AIR AND MISSILE DEFENSE COMMAND AND CONTROL SYSTEMS (TOCS/AMDCCS) IS RESPONSIBLE FOR: THE OVERALL MANAGEMENT OF ACTIVITIES RELATED TO RESEARCH, DEVELOPMENT, AND ACQUISITION OF AUTOMATED AIR AND MISSILE DEFENSE COMMAND AND CONTROL (C2) SYSTEMS TO INCLUDE FAAD C2 (ACAT 1C) AND AIR/MISSILE DEFENSE PLANNING AND CONTROL SYSTEM (AMDPCS) (ACAT III); INSURING EFFECTIVE INTERFACES BETWEEN AIR DEFENSE C2 SYSTEMS AND THE ARMY BATTLE COMMAND SYSTEM, OTHER SERVICES, AND ALLIED NATIONS; AND, THE DEVELOPMENT, INTEGRATION, TESTING, FIELDING, AND SUSTAINMENT OF TACTICAL OPERATIONS CENTERS AND GROUND BASED COMMAND AND CONTROL PLATFORMS FOR THE ARMY.

# F. PM TACTICAL RADIO COMMUNICATIONS SYSTEMS

MISSION: THE MISSION OF PM TACTICAL RADIO COMMUNICATIONS SYSTEMS (PM TRCS) IS TO PROVIDE RELEVANT AND READY INTEROPERABILITY VOICE AND DATA COMMUNICATIONS FOR TACTICAL NETWORKS TO THE JOINT AND COALITION FORCES. PM TRCS IS RESPONSIBLE FOR THE OVERALL PROJECT MANAGEMENT OF ASSIGNED COMMUNICATION PROGRAMS WHICH INCLUDE SINGLE CHANNEL GROUND AND AIRBORNE RADIO SYSTEM (SINCGARS), ENHANCED POSITION LOCATION REPORTING SYSTEMS (EPLRS), MULTI-FUNCTIONAL INFORMATION DISTRIBUTION SYSTEM (MIDS) OR ARMY LINK-16, COMBAT SURVIVOR EVADER LOCATOR (CSEL), NEAR TERM DIGITAL RADIO (NTDR), SPITFIRE, HIGH FREQUENCY RADIO (HF), ARMY COMMON USER SYSTEM MODERNIZATION PROGRAMS, ARMY OVER TIME MODERNIZATION EFFORTS AND COMMUNICATIONS SYSTEMS THAT SUPPORT STRYKER BRIGADE COMBAT TEAMS 1-6 AND NETWORK OPERATIONS - CURRENT FORCE (NETOPS-CF) IN ACCORDANCE WITH APPLICABLE REGULATIONS AND DIRECTIVES.

# G. PM WARFIGHTER INFORMATION NETWORK-TACTICAL

MISSION: THE MISSION OF PM WARFIGHTER INFORMATION NETWORK – TACTICAL'S (WIN-T) IS TO INTEGRATE THE COMMUNICATIONS NETWORK FOR THE OBJECTIVE FORCE (OF), OPTIMIZED FOR OFFENSIVE AND JOINT OPERATIONS, WHILE PROVIDING THE THEATER COMMANDER IN CHIEF (CINC) THE CAPABILITY TO PERFORM MULTIPLE MISSIONS SIMULTANEOUSLY WITH CAMPAIGN QUALITY. IT WILL BE A FRAMEWORK, WHICH WILL SET STANDARDS AND PROTOCOLS FOR OF INFOSPHERES WHILE INTERFACING WITH AND/OR REPLACING EQUIPMENT IN LEGACY AND INTERIM FORCES. WIN-T IS THE OF HIGH-SPEED AND HIGH CAPACITY BACKBONE COMMUNICATIONS NETWORK.

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## XX. PEO ENTERPRISE INFORMATION SYSTEMS (EIS)

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# A. PM ACOUISITION, LOGISTICS AND TECHNOLOGY ENTERPRISE SYSTEMS

MISSION: PM ACQUISITION, LOGISTICS AND TECHNOLOGY ENTERPRISE SYSTEMS (ALTESS) PROVIDES INFORMATION MANAGEMENT POLICY, GUIDANCE, SUPPORT, AND ENTERPRISE PRODUCTS AND SERVICES TO THE ARMY ACQUISITION EXECUTIVE (AAE), THE OFFICE OF THE ASSISTANT SECRETARY OF THE ARMY FOR ACQUISITION, LOGISTICS & TECHNOLOGY (ASA(ALT)) AND THE ACQUISITION DOMAIN. THE PLATFORM IS A NET CENTRIC COLLABORATIVE ENVIRONMENT RELEVANT TO THE ARMY AND DOD ACQUISITION DOMAINS. ALTESS ALSO PROVIDES SPECIALIZED INFORMATION MANAGEMENT PRODUCTS, SUPPORT, SOLUTIONS AND SERVICES TO OTHER ARMY AND DOD ELEMENTS.

## AREAS OF INTEREST: TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

 PROVIDING AUTOMATED TOOLS TO ASSIST ARMY ACQUISITION PROGRAMS IN MANAGING ASSIGNED PROGRAMS

## B. PM ARMY HUMAN RESOURCE SYSTEM

MISSION: THE ARMY HUMAN RESOURCE SYSTEM (AHRS) PRODUCT MANAGEMENT OFFICE PRODUCES AND ESTABLISHES PERSONNEL MANAGEMENT INFORMATION SYSTEMS FOR THE ACTIVE ARMY. AHRS FACILITATES THE MODERNIZATION OF HUMAN RESOURCE ADVANCEMENT THAT INCLUDES SUPPORT TO THE ARMY'S PERSONNEL TRANSFORMATION BY PROVIDING COMMANDERS WITH WEB BASED, INTERACTIVE, AND ACCURATE MILITARY PERSONNEL INFORMATION TO MAKE DECISIONS AND EFFECTIVELY MANAGE PERSONNEL. THE AHRS OVERALL GOAL IS TO CONSOLIDATE SOME OF THE ARMY FIELD LEVEL PERSONNEL SYSTEMS IN PREPARATION FOR MIGRATION TO THE DEFENSE INTEGRATED MILITARY HUMAN RESOURCE SYSTEM (DIMHRS). AHRS IS A SYSTEM OF SYSTEMS CONSISTING OF ENTERPRISE DATASTORE (ED), ELECTRONIC MILITARY PERSONNEL OFFICE (EMILPO), PERSONNEL TEMPO (PERSTEMPO), TACTICAL PERSONNEL SYSTEM (TPS), AND ARMY COMPANY INFORMATION SYSTEM (ARCIS).

# C. PM DEFENSE COMMUNICATIONS AND ARMY SWITCHED SYSTEMS

MISSION: PM DEFENSE COMMUNICATIONS AND ARMY SWITCHED SYSTEMS (PM DCASS) ACQUIRES AND SUSTAIN UPGRADES AND MODERNIZATION OF ENTERPRISE ENABLED VOICE AND DATA NETWORKS IN SUPPORT OF THE INSTALLATION INFORMATION INFRASTRUCTURE PROGRAMS WORLDWIDE. PROVIDES CORE DATA BACKBONE AND TELECOMMUNICATIONS INFRASTRUCTURE UPGRADES AND MODERNIZATIONS TO ARMY INSTALLATIONS AROUND THE WORLD. PM DCASS IS THE PRIMARY IMPLEMENTER OF THE INSTALLATION INFORMATION INFRASTRUCTURE MODERNIZATION PROGRAM (I3MP) AND HAS RECENTLY ASSUMED RESPONSIBILITY TO PROVIDE THE GOAL 3 ENTERPRISE SOLUTION IN SUPPORT OF THE ARMY KNOWLEDGE MANAGEMENT (AKM) STRATEGIC PLAN.

- PROVIDING ENTERPRISE SOLUTIONS TO THE ARMY KNOWLEDGE MANAGEMENT STRATEGIC PLAN
- SUPPLYING TELECOMMUNICATIONS SUPPLIES, INSTALLATIONS, AND SUPPORT
- SWITCHING AND NETWORKING TECHNOLOGIES
- INSTALLATION AND SUPPORT SERVICES
- LOGISTICS SUPPORT
- TOTAL PROJECT MANAGEMENT

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# D. PM DEFENSE COMMUNICATIONS AND ARMY TRANSMISSION SYSTEMS

MISSION: PM DEFENSE COMMUNICATIONS AND ARMY TRANSMISSION SYSTEMS (PM DCATS) SUPPORTS THE JOINT WARFIGHTERS, MAJOR ARMY COMMANDS AND COMBATANT COMMANDERS, AND ALL THEIR CUSTOMERS, WITH DEDICATED WORLDWIDE STRATEGIC SATELLITE GROUND COMPONENT AND LONG HAUL TERRESTRIAL MICROWAVE COMMUNICATION SYSTEMS, TECH CONTROL FACILITIES, COMMAND CENTER UPGRADES, BASE RADIOS, COMBAT VEHICLE INTERCOM SYSTEMS, AND DEPLOYED FORCES INFRASTRUCTURE. PM DCATS PROVIDES CENTRALIZED, INTENSIVE PROJECT MANAGEMENT OF COMMUNICATIONS TRANSMISSION SYSTEMS PROJECTS AND OTHER SPECIAL PROGRAMS, WORLDWIDE.

## **AREAS OF INTEREST:** TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- PROVIDING STAFF ADVICE AND ASSISTANCE ON ALL TECHNICAL AND READINESS MATTERS RELATING TO SATELLITE AND ARMY TRANSMISSION PROGRAMS
- PROVIDING DEVELOPMENT, MODERNIZING COMMAND, CONTROL, COMMUNICATIONS, COMPUTER AND INTELLIGENCE SYSTEMS, IMPLEMENTING TERRESTRIAL TRANSMISSIONS, AND IMPROVING TECHNICAL CONTROL PROJECTS

## E. PM DISTRIBUTED LEARNING SYSTEM

MISSION: THE MISSION OF PM DISTRIBUTED LEARNING SYSTEM (PM DLS) IS TO ACQUIRE AND SUSTAIN HARDWARE, SOFTWARE AND SERVICES ENABLING STUDENT ACCESS TO DISTRIBUTED TRAINING PRODUCTS AT THE RIGHT TIME AND PLACE. DLS IS A KEY ENABLER OF ARMY TRAINING TRANSFORMATION BY PROVIDING SOLDIERS AND CIVILIANS WITH THE INFRASTRUCTURE TO IMPROVE TRAINING EFFICIENCY AND FLEXIBILITY. IN 1997, DLS, FORMERLY KNOWN AS THE ARMY DISTANCE LEARNING PROGRAM (TADLP), BEGAN TO FIELD THE FACILITIES AND INFRASTRUCTURE REQUIRED TO DELIVER TRAINING AROUND THE WORLD ANYWHERE AND AT ANYTIME. BY 2003, DLS HAD TRAINED MORE THAN 450,000 SOLDIERS IN THE DIGITAL TRAINING FACILITIES WORLDWIDE. DLS WILL SOON FIELD ITS LEARNING MANAGEMENT SYSTEM TO SUPPORT THE DELIVERY, MANAGEMENT, SCHEDULING, AND COORDINATION OF DISTRIBUTED LEARNING.

## AREAS OF INTEREST: TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

• PROVIDING WORLDWIDE ACCESS TO ARMY TRAINING CURRICULUMS

# F. PM ENTERPRISE INFOSTRUCTURE

MISSION: THE PM ENTERPRISE INFOSTRUCTURE'S (PM EI) MISSION IS TO DESIGN, DEVELOP, ACQUIRE, INTEGRATE, TEST AND FIELD A WORLD CLASS INFORMATION TECHNOLOGY ENTERPRISE INFOSTRUCTURE FOR THE U.S. ARMY. PM EI WILL FORM PARTNERSHIPS WITH GOVERNMENT AND INDUSTRY TO PROVIDE ACQUISITION SOLUTIONS FOR: SECURE MESSAGING AND DIRECTORY SERVICES; PUBLIC KEY AND BIOMETRIC TECHNOLOGY SOLUTIONS FOR ARMY APPLICATIONS; IN-TRANSIT VISIBILITY INFRASTRUCTURE AND AUTOMATIC IDENTIFICATION TECHNOLOGIES; ENTERPRISE CONTRACTS PROVIDING A FULL RANGE OF HARDWARE, SOFTWARE AND SERVICES; APPLICATIONS TO AUTOMATE CRITICAL BUSINESS FUNCTIONS AND MONITORING OF HAZARDOUS MATERIALS ON ARMY INSTALLATIONS. PM EI FULFILLS THE SECRETARY OF THE ARMY'S GOAL TO OPERATE AND MANAGE ARMY INFOSTRUCTURE AT THE ENTERPRISE LEVEL UNDER A SINGLE AUTHORITY.

- PROVIDING INFORMATION TECHNOLOGY, INFORMATION TECHNOLOGY INFRASTRUCTURE, AND INFORMATION SYSTEMS
- MESSAGING SYSTEMS
- PROVIDING COMMERCIALLY AVAILABLE AUTOMATIC IDENTIFICATION EQUIPMENT
- FIELDING SMART CARD READERS AND MIDDLEWARE

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# G. PM FORCE MANAGEMENT SYSTEM

MISSION: IT IS THE MISSION OF PROJECT OFFICE, FORCE MANAGEMENT SYSTEM (FMS) TO DESIGN, DEVELOP AND DEPLOY AN INTEGRATED FORCE MANAGEMENT SYSTEM WHICH WILL ESTABLISH ACCURATE, CONSISTENT AND TIMELY FORCE STRUCTURE INFORMATION TO THE ARMY FORCE MANAGEMENT COMMUNITY. FMS WILL DIRECTLY SUPPORT THE ARMY FORCE MANAGEMENT DIRECTOR MISSION OF: MANAGING AND ALLOCATING MANPOWER AND FORCE STRUCTURE INFORMATION, DOCUMENTING UNIT MODELS (REQUIREMENTS) AND AUTHORIZATIONS OVER TIME, AND PROVIDE ORGANIZATIONAL/FORCE STRUCTURE SOLUTIONS IN SUPPORT OF THE ARMY'S TRANSFORMATION TOWARDS THE FUTURE FORCE. THE PROJECT CONSISTS OF REPLACEMENT OF THE FOUR LEGACY SYSTEMS CURRENTLY BEING USED BY THE FORCE MANAGEMENT COMMUNITY [REQUIREMENTS DOCUMENTATION SYSTEM, CLIENT-SERVER (RDSCS), THE ARMY AUTHORIZATION DOCUMENTATION SYSTEM (TAADS, WINTAADS, WEBTAADS), FORCE BUILDER/SACS, AND STRUCTURE AND MANPOWER ALLOCATION SYSTEM, CLIENT-SERVER (SAMASCS)]. THE DEVELOPMENT OF RDSCS AND SAMASCS REPRESENTS AN INTERIM STEP IN THE INTEGRATION PROCESS, THESE SYSTEMS HAVE BEEN REMOVED FROM EXPENSIVE AND MANPOWER INTENSIVE MAINFRAME OPERATIONS AND RE-LOCATED TO CLIENT-SERVER PLATFORMS, PROVIDING COST AND MANPOWER SAVINGS TO THE ARMY. THE FMS INCORPORATES COMMON SOFTWARE DEVELOPMENT TOOLS, DESIGN AND DEVELOPMENT STANDARDS, COMPILING WITH ARMY ARCHITECTURE AND CIO STANDARDS. IT PROVIDES FOR BROWSER-BASED WEB ACCESSIBILITY, ONLINE TRANSACTION PROCESSING, AND ONLINE ANALYSIS PROCESSING CAPABILITY TO USERS IN THE COMMUNITY WITH APPROVED ACCESS. THE INTEGRATED SYSTEM WILL PROVIDE CONSISTENT AND STANDARDIZED DATA, INCORPORATING GOVERNMENT AND INDUSTRY STANDARDS FOR SECURITY. THE DESIGN ALSO PROVIDES FOR ONLINE DATA WAREHOUSING OF ARCHIVE DATA AND STREAMLINED SYSTEM MAINTENANCE.

## H. PM INFORMATION TECHNOLOGY SYSTEMS

MISSION: DESIGNS, PROCURES, INSTALLS AND DELIVERS A STATE-OF-THE-ART IT INFRASTRUCTURE TO THE RENOVATED PENTAGON USER COMMUNITY. PM INFORMATION TECHNOLOGY SYSTEMS WILL MODERNIZE PENTAGON IT SYSTEMS IN CONJUNCTION WITH THE COMPREHENSIVE RENOVATION OF THE BUILDING, PROVIDING STRUCTURED AND DOCUMENTED WIRING, A COMMON PHYSICAL INFRASTRUCTURE AND A CENTRALLY MANAGED COMMUNICATIONS BACKBONE.

# I. PM LOGISTICS INFORMATION SYSTEMS

MISSION: THE MISSION OF PM LOGISTICS INFORMATION SYSTEMS (PM LIS) (FORMERLY GLOBAL COMBAT SUPPORT SYSTEM - ARMY [PM GCSS-A]) IS TO DIRECT, COORDINATE, REPORT, AND EVALUATE ALL FUNCTIONAL, PROGRAMMATIC, AND TECHNICAL ASPECTS OF ASSIGNED STANDARD ARMY LOGISTICS SYSTEMS. PM LIS IS DEVELOPING THE ARMY'S PORTION OF AN INTEGRATED MULTI-SERVICE GLOBAL COMBAT SUPPORT SYSTEM (GCSS), WHILE CONTINUING TO MAINTAIN THE CURRENT LEGACY SYSTEMS IN THE FIELD. GCSS SUPPORTS ARMY LOGISTICS FOR SUPPLY, MAINTENANCE, TRANSPORTATION, PROPERTY ACCOUNTABILITY AND AMMUNITION. PM LIS WILL COMBINE THE FUNCTIONS OF EIGHT LEGACY LOGISTICS SYSTEMS INTO A SINGLE SYSTEM, AND, OVER TIME, REPLACE OR INTERFACE WITH ALL EXISTING AUTOMATED COMBAT SUPPORT SYSTEMS (CSS). THE NEW SYSTEM WILL ENCOMPASS PERSONNEL, FINANCIAL, MEDICAL AND OTHER NON-LOGISTICS CSS FUNCTIONS.

# AREAS OF INTEREST: TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

 SUPPORTING ARMY LOGISTICS FOR SUPPLY, MAINTENANCE, TRANSPORTATION, PROPERTY ACCOUNTABILITY AND AMMUNITION

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# J. PM MEDICAL COMMUNICATIONS FOR COMBAT CASUALTY CARE

MISSION: THE MEDICAL COMMUNICATIONS FOR COMBAT CASUALTY CARE (MC4) PROGRAM IS A CAPSTONE PROGRAM, WHICH PROVIDES SUPPORT TO THE TACTICAL ARMY MEDICAL FORCE STRUCTURE THROUGH THE ACQUISITION OF EXISTING DIGITAL COMMUNICATIONS AND INFORMATION MANAGEMENT/TECHNOLOGY (IM/IT) CAPABILITIES OR DEVELOPMENT OF TECHNOLOGICAL SOLUTIONS. THE MC4 SYSTEM WILL PROVIDE SEAMLESS, INTEROPERABLE SUPPORT FOR RAPID MOBILIZATION, DEPLOYMENT AND SUSTAINMENT OF ARMY THEATER MEDICAL SERVICES FOR MODULAR HOSPITAL PLATFORMS AND NON-HOSPITAL UNITS THROUGHOUT THE WARTIME THEATER OF OPERATIONS, AS WELL AS PEACE OPERATIONS, HUMANITARIAN ASSISTANCE AND OPERATIONS IN AID OF CIVIL AUTHORITIES. THE MC4 SYSTEM IS A FAMILY OF SYSTEMS CONSISTING OF HANDHELD COMPUTERS, NOTEBOOK COMPUTERS, NETWORKING AND PERIPHERAL EQUIPMENT (E.G., ROUTERS AND HUBS, SERVERS AND PRINTERS). THE MC4 SYSTEMS HAVE THE CAPABILITY TO RECEIVE, STORE, PROCESS, TRANSMIT, ARCHIVE AND REPORT MEDICAL COMMAND AND CONTROL, MEDICAL SURVEILLANCE, CASUALTY MOVEMENT/TRACKING, MEDICAL TREATMENT, MEDICAL SITUATIONAL UNDERSTANDING AND MEDICAL LOGISTICS DATA BOTH VERTICALLY AND HORIZONTALLY AT ALL ECHELONS OF MEDICAL CARE.

# AREAS OF INTEREST: TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

• DEVELOPING AND DEPLOYING AN INTEGRATED FAMILY OF MEDICAL COMMUNICATIONS AND AUTOMATED INFORMATION SYSTEMS, WARFIGHTER PHYSIOLOGICAL STATUS MONITOR, AND MEDICAL EQUIPMENT SET-TELEMEDICINE

# K. PM RESERVE COMPONENT AUTOMATION SYSTEM AND DISTRIBUTIVE TRAINING TECHNOLOGY PROJECT

MISSION: DEVELOPS, FIELDS AND SUSTAINS A MODERN AUTOMATED INFORMATION SYSTEM THAT WILL CARRY US INTO THE 21ST CENTURY, SUPPORT THE MOBILIZATION OF RESERVE COMPONENT UNITS, AND SIGNIFICANTLY IMPROVE THEIR ABILITY TO ACCOMPLISH DAY-TO-DAY UNIT ADMINISTRATION. RCAS IS ALSO RESPONSIBLE FOR THE DISTRIBUTIVE TRAINING TECHNOLOGY PROJECT (DTTP). THE RCAS IS AN AUTOMATED INFORMATION SYSTEM THAT PROVIDES THE ARMY THE CAPABILITY TO ADMINISTER, MANAGE, AND MOBILIZE ARMY GUARD AND RESERVE FORCES MORE EFFECTIVELY. OVER FIFTY PERCENT OF THE ARMY'S FORCE STRUCTURE IS IN THE RESERVE COMPONENT. EXISTING INFORMATION MANAGEMENT SYSTEMS IN THE ARMY NATIONAL GUARD (ARNG) AND UNITED STATES ARMY RESERVE (USAR) ARE NOT INTEGRATED, ARE LIMITED IN CAPABILITY AND FUNCTIONALITY, AND REQUIRE EXCESSIVE TIME AND MANPOWER TO OPERATE AND MAINTAIN. THE RCAS PROVIDES AN INTEGRATED CAPABILITY THAT SUPPORTS MOBILIZATION AND IMPROVES DAY-TO-DAY ADMINISTRATION AND MANAGEMENT OF RESERVE AND GUARD FORCES. RCAS LINKS APPROXIMATELY 10,500 GUARD AND RESERVE UNITS AT APPROXIMATELY 4,000 SITES LOCATED IN ALL 50 STATES, 3 TERRITORIES AND THE DISTRICT OF COLUMBIA. DTTP IS A STATE-OF-THE-ART COMMUNICATIONS AND LEARNING-DELIVERY SYSTEM DESIGNED TO SUPPORT THE NATIONAL GUARD'S TRADITIONAL AND EXPANDING MISSIONS AT HOME AND ABROAD. USING DTTP RESOURCES, SOLDIERS CAN NOW STUDY FOREIGN LANGUAGES AND IMPROVE SKILLS IN READING, WRITING, CRITICAL THINKING, AND INFORMATION TECHNOLOGY. THERE ARE MORE THAN 300 SPECIALLY DESIGNED MULTIMEDIA CLASSROOMS THROUGHOUT THE COUNTRY, LINKED BY A TERRESTRIAL NETWORK AND EMERGING SATELLITE TECHNOLOGIES.

**AREAS OF INTEREST:** TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING: COMMUNICATIONS AND LEARNING-DELIVERY SYSTEM

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# L. PM STANDARD PROCUREMENT SYSTEM

MISSION: STANDARD PROCUREMENT SYSTEM (SPS) IS A MAJOR ACQUISITION PROGRAM, WHICH DEVELOPS, TESTS AND DEPLOYS A SUITE OF SOFTWARE PRODUCTS TO AUTOMATE AND STANDARDIZE THE PROCUREMENT PROCESS FOR PROCUREMENT PROFESSIONALS THROUGHOUT THE DOD.

# AREAS OF INTEREST: TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

• DEVELOPING, TESTING AND DEPLOYING SOFTWARE PRODUCTS TO AUTOMATE AND STANDARDIZE THE PROCUREMENT PROCESS

#### M. PM TRANSPORTATION INFORMATION SYSTEMS

MISSION: PM TRANSPORTATION INFORMATION SYSTEMS (PM TIS) AUTOMATES THE PROCESSES OF PLANNING, ORGANIZING, COORDINATING AND CONTROLLING UNIT-RELATED DEPLOYMENTS, SUSTAINMENT, DAY-TO-DAY INSTALLATION TRANSPORTATION OFFICER/TRANSPORTATION MANAGEMENT OFFICER OPERATIONS, REDEPLOYMENT AND RETROGRADE OPERATIONS IN SUPPORT OF THE DEFENSE TRANSPORTATION SYSTEM. PM TIS WILL INTERFACE WITH INSTALLATION, UNIT AND DEPOT-LEVEL SUPPLY SYSTEMS, THE GLOBAL TRANSPORTATION NETWORK, JOINT OPERATIONAL PLANNING AND EXECUTION SYSTEM (JOPES) THROUGH THE USE OF THE JOINT FORCE REQUIREMENTS GENERATOR II. AS A JOINT SERVICE SYSTEM, PM TIS ELIMINATES THE NEED FOR A NUMBER OF SERVICE-UNIQUE STOVEPIPE SYSTEMS AND REDUCES DUPLICATION OF SOFTWARE DEVELOPMENT & MAINTENANCE ACROSS THE DOD.

## AREAS OF INTEREST: TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- KNOWLEDGE-BASED EXPERT SYSTEM THAT ASSISTS USERS IN THE COMPLEX TASK OF PLANNING AND EXECUTING AIRCRAFT LOADS FOR ALL TYPES OF DEPLOYMENTS
- PLANNING AND EXECUTING DEPLOYMENTS DURING BOTH DAY TO DAY OPERATIONS AND CRISIS SITUATIONS
- PLANNING, ORGANIZING, COORDINATING AND CONTROLLING UNIT-RELATED DEPLOYMENTS, SUSTAINMENT, DAY-TO-DAY INSTALLATION TRANSPORTATION OFFICER/TRANSPORTATION MANAGEMENT OFFICER OPERATIONS, REDEPLOYMENT AND RETROGRADE OPERATIONS IN SUPPORT OF THE DEFENSE TRANSPORTATION SYSTEM
- PROVIDING AN AUTOMATED INFORMATION PROCESSING CAPABILITY FOR PLANNING, PROGRAMMING, COORDINATING, AND CONTROLLING MOVEMENTS AND TRANSPORTATION RESOURCES IN A THEATER OF OPERATIONS

# N. PO GENERAL FUNDS ENTERPRISE BUSINESS SYSTEMS

MISSION: THE DEPARTMENT OF THE ARMY NEEDS TO REPLACE THE DATED BATCH-ORIENTED MAINFRAME-BASED SYSTEMS THAT CURRENTLY SUPPORT ITS GENERAL FUND ACCOUNTING AND FINANCIAL MANAGEMENT REQUIREMENTS. THE ARMY NEEDS A NEW FINANCIAL MANAGEMENT SYSTEM TO IMPROVE PERFORMANCE, STANDARDIZE PROCESSES, AND ENSURE THAT IT CAN MEET FUTURE NEEDS. SPECIFICALLY, THE ARMY IS SEEKING AN INTEGRATED FINANCIAL MANAGEMENT SYSTEM SOLUTION TO INCLUDE A COMMERCIAL OFF THE SHELF ENTERPRISE RESOURCE PLANNING SYSTEM, SYSTEMS INTEGRATION SERVICES SUPPORT, AND APPLICATION SERVICE PROVIDER SERVICES SUPPORT. COLLECTIVELY, THIS NEW SYSTEM WILL BE KNOWN AS GENERAL FUND ENTERPRISE BUSINESS SYSTEM. THE GFEBS APPLICATION SHALL FULFILL THE REQUIREMENTS OF THE FEDERAL FINANCIAL MANAGEMENT IMPROVEMENT ACT. THIS NEW SYSTEM SHALL BE CAPABLE OF SUPPORTING DOD WITH ACCURATE AND TIMELY FINANCIAL INFORMATION, IN PEACETIME AND IN WAR. THE RESULTING SYSTEM SHALL PROVIDE WEB-BASED, ONLINE, REAL-TIME TRANSACTION AND INFORMATION CAPABILITY AND BE ACCESSIBLE TO THE INSTALLATION MANAGEMENT AGENCY, ARMY NATIONAL GUARD, UNITED STATES ARMY RESERVE, AND ALL ORGANIZATIONS WORLDWIDE EXCLUDING THE ARMY CORPS OF ENGINEERS.

# XXI. PEO GROUND COMBAT SYSTEMS (GCS)

SBIR POC: JOHN KARAVIAS, 586-574-8190, john.j.karavias@us.army.mil

# A. PM COMBAT SYSTEMS

MISSION: PM COMBAT SYSTEMS (PM CS) ACQUIRES, FIELDS, AND SUSTAINS THE ARMY'S SPECTRUM OF CLOSE COMBAT AND FIRE SUPPORT SYSTEMS NECESSARY TO DEFEND OUR NATION AND TO CARRY OUT NATIONAL SECURITY POLICIES ANYWHERE IN THE WORLD. PM CS TAKES A TOTAL ARMY PERSPECTIVE IN MANAGING THE DEVELOPMENT, ACQUISITION, TESTING, SYSTEMS INTEGRATION, PRODUCT IMPROVEMENT, FIELDING, AND LOGISTICS SUPPORT OF ABRAMS TANKS, THE BRADLEY FIGHTING VEHICLE FAMILY, PALADIN/FAASV SELF-PROPELLED HOWITZER SYSTEMS, AND THE VERSATILE M113 FAMILY OF VEHICLES, TO PROVIDE WORLD CLASS EQUIPMENT TO THE AMERICAN SOLDIER AND TO PROVIDE THE ARMY'S CURRENT HEAVY FORCE THE LETHALITY, SURVIVABILITY, MOBILITY, AND SHOCK ACTION NEEDED TO ACHIEVE DECISIVE VICTORY ON THE MODERN BATTLEFIELD.

# B. PM JOINT LIGHTWEIGHT HOWITZER 155MM

MISSION: PM JOINT LIGHTWEIGHT HOWITZER (PM JLWH) TAKES A JOINT (ARMY & MARINE) PERSPECTIVE IN MANAGING THE DEVELOPMENT, ACQUISITION, TESTING, SYSTEMS INTEGRATION, PRODUCT IMPROVEMENT, AND FIELDING OF THE JOINT LIGHTWEIGHT HOWITZER SYSTEM, DESIGNED TO ENHANCE STRATEGIC MOBILITY AND PROVIDE THE INFANTRYMAN AND MARINE WITH EFFECTIVE AND RESPONSIVE FIRE SUPPORT. PM JLWH'S TASK IS TO PROVIDE A WORLD-CLASS, SUPPORTABLE HOWITZER SYSTEM TO THE ARTILLERY CANNONEER PERMITTING HIM TO ACCOMPLISH HIS MISSION.

# C. PM ROBOTIC SYSTEMS JPO

MISSION: PM ROBOTIC SYSTEMS JPO TAKES A JOINT (ARMY & MARINE) PERSPECTIVE IN MANAGING THE DEVELOPMENT, ACQUISITION, TESTING, SYSTEMS INTEGRATION, PRODUCT IMPROVEMENT, AND FIELDING OF ROBOTIC SYSTEMS WHICH WILL FORM THE BACKBONE OF THE FORCE OF THE FUTURE. PM ROBOTICS SYSTEMS JPO IS SPEARHEADING DEVELOPMENT OF THE FIRST GENERATION SYSTEM EMPLOYING THE LATEST SENSOR, REMOTE NAVIGATION, AND COMMAND AND CONTROL TECHNOLOGIES TO INTEGRATE ROBOTICS INTO THE BATTLEFIELD. SPEEDING THESE TECHNOLOGIES TO THE BATTLEFIELD HAS POTENTIAL TO REVOLUTIONIZE COMBAT OPERATIONS.

# D. PM STRYKER BRIGADE COMBAT TEAM

MISSION: PM STRYKER BRIGADE COMBAT TEAM DEVELOPS, PRODUCES, FIELDS AND SUSTAINS A FULL RANGE OF SAFE, RELIABLE, SUPPORTABLE AND EFFECTIVE SYSTEMS CALLED STRYKER, WHICH WILL BE THE PRIMARY WEAPONS PLATFORM DURING THE ARMY'S TRANSFORMATION. THE STRYKER IS A DIVERSE FLEET OF MEDIUM WEIGHT VEHICLES CAPABLE OF BEING RAPIDLY DEPLOYED TO TROUBLE SPOTS WITHIN THE WORLD. THESE VEHICLES LEVERAGE EXISTING MILITARY "STATE OF THE ART" TECHNOLOGIES IN ORDER TO PROVIDE WORLD-CLASS EQUIPMENT TO THE SOLDIER IN RECORD TIME.

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# XXII. PEO INTELLIGENCE, ELECTRONIC WARFARE & SENSORS (IEW&S)

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## A. PM AVIATION ELECTRONIC SYSTEMS

MISSION: PM AVIATION ELECTRONIC SYSTEMS PROVIDES ARMY AVIATION PLATFORMS COUNTERMEASURES FOR SELF PROTECTION AND SURVIVABILITY.

## B. PM DISTRIBUTED COMMON GROUND SYSTEM-ARMY

MISSION: PM DISTRIBUTED COMMON GROUND SYSTEM-ARMY (DCGS-A) IS THE ARMY EMBODIMENT OF NET-CENTRIC INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE (ISR) FOR THE COMMANDER, ANALYST, AND SHOOTER. IT BRINGS THREAT, NEUTRAL, AND WEATHER CAPABILITY TO THE COMMON OPERATING PICTURE WHILE PROVIDING SENSOR TASKING, POSTING AND PROCESSING OF INFORMATION, AND EXPLOITATION OF THAT INFORMATION. IT WILL PROVIDE FIXED, DEPLOYABLE, MAN-PORTABLE SYSTEMS OR A SOFTWARE APPLICATION DEPENDING ON THE COMMANDER'S REQUIREMENTS.

# C. PM NAVIGATION SYSTEMS

MISSION: PM NAVIGATION SYSTEMS (NAV SYS) PROVIDES THE TACTICAL ARMY WITH CAPABILITY FOR SELF LOCATION THROUGH GROUND BASED AND AIRBORNE GPS. NAV SYS ALSO PROVIDES THE MEANS FOR COMBAT IDENTIFICATION.

# AREAS OF INTEREST:

- METEOROLOGICAL MEASURING SET (MMS) (UPPER AIR METEOROLOGICAL SYSTEM THAT MAKES VERTICAL PROFILES OF THE EARTH'S ATMOSPHERE)
- METEOROLOGICAL MEASURING SET PROFILER (MMS-P) ( USES A SUITE OF METEOROLOGICAL SENSORS AND DATA FROM COMMUNICATION SATELLITES ALONG AN ADVANCED WEATHER MODEL TO PROVIDE HIGHLY ACCURATE METEOROLOGICAL DATA OUT TO A RANGE OF 500KM
- COMBAT IDENTIFICATION/QUICK FIX DEVICES (INCLUDES A FAMILY OF DEVICES USED TO REDUCE THE RISK OF FRATRICIDE)

# D. PM NIGHT VISION/RECONNAISSANCE, SURVEILLANCE, AND TARGET ACQUISITION

**MISSION:** PM NIGHT VISION/RECONNAISSANCE, SURVEILLANCE, AND TARGET ACQUISITION DEVELOPS, ACQUIRES, AND PROVIDES SUPERIOR, AFFORDABLE DAY/NIGHT VISION SYSTEMS, WEAPON LOCATING SYSTEMS, AND MULTI-SENSOR SYSTEMS TO THE AMERICAN WARFIGHTER.

- LONG-RANGE RECONNAISSANCE AND SURVEILLANCE SENSOR SYSTEMS
- MODULAR TARGET LOCATION/LASER DESIGNATION SYSTEMS
- THERMAL IMAGING TECHNOLOGY
- MOBILE PHASED ARRAY ARTILLERY LOCATING RADAR SYSTEMS
- SHORT RANGE AIR DEFENSE SYSTEMS
- RECONNAISSANCE, SURVEILLANCE AND TARGET ACQUISITION SYSTEMS

# XXII. PEO INTELLIGENCE, ELECTRONIC WARFARE & SENSORS (IEW&S) (CONTINUED)

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## E. PM SIGNALS WARFARE

MISSION: PM SIGNALS WARFARE PROVIDES THE AMERICAN WARFIGHTER WITH THE FINEST COMBAT EFFECTIVE INTELLIGENCE, SURVEILLANCE, RECONNAISSANCE, AND ELECTRONIC WARFARE SYSTEMS IN THE WORLD, IN A TIMELY, COST EFFECTIVE AND SUSTAINABLE MANNER, WHILE FULLY SUPPORTING ARMY TRANSFORMATION.

## **AREAS OF INTEREST:** TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- PROVIDING PRECISION TARGETING, IMAGING AND GEOLOCATION
- CONTROLLING AND EXPLOITING UAV MISSION PAYLOADS
- INTERCEPTION AND LOCATION OF RADIO EMISSIONS
- AIRBORNE SIGNALS INTELLIGENCE COLLECTION LOCATION AND EXPLOITATION SYSTEMS

## F. PO JOINT PROGRAMS SUSTAINMENT AND DEVELOPMENT

MISSION: IN RESPONSE TO THE REQUIREMENTS OF COMBATANT COMMANDERS AND THE DEPARTMENT OF DEFENSE, PO JOINT PROGRAMS SUSTAINMENT AND DEVELOPMENT (PO JPSD) INTEGRATES MATURING TECHNOLOGIES, COMMERCIAL HARDWARE AND SOFTWARE AND NEW TACTICS, TECHNIQUES AND PROCEDURES TO FACILITATE DEVELOPMENT OF CAPABILITIES IN THE AREAS OF COMMAND, CONTROL, COMMUNICATIONS, AND COMPUTERS (C4), AND INTELLIGENCE, SURVEILLANCE AND RECONNAISSANCE (ISR). PO JPSD USES NON-TRADITIONAL ACQUISITION APPROACHES, SUCH AS ADVANCED CONCEPT TECHNOLOGY DEMONSTRATIONS, SIMULATION BASED ACQUISITION, RAPID PROTOTYPING, AND OTHER NOVEL APPROACHES TO ACCELERATE THE MATURATION AND TRANSITION OF KEY CAPABILITIES TO THE ARMY FUTURE FORCE AND FUTURE ELEMENTS OF THE JOINT WARFIGHTING FORCE.

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# XXIII. PEO MISSILES AND SPACE

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## A. PM ARMY SPACE PROJECT OFFICE

MISSION: THE ARMY SPACE PROJECT OFFICE (ASPO) IS RESPONSIBLE FOR THE EXECUTION OF THE ARMY TACTICAL EXPLOITATION OF NATIONAL CAPABILITIES (TENCAP) PROGRAM. TENCAP IS A CONGRESSIONALLY MANDATED PROGRAM THAT LEVERAGES THE CURRENT AND FUTURE TACTICAL POTENTIAL OF THE NATIONAL SPACE CAPABILITIES AND INTEGRATES THEM INTO THE TACTICAL DECISION-MAKING PROCESS AS RAPIDLY AS POSSIBLE. ARMY TENCAP SYSTEMS ENABLE THE TACTICAL COMMANDER TO SEE AND HEAR DEEP ACROSS TODAY'S NON-LINEAR BATTLESPACE AND THEN ASSESS THE SITUATION AND PROVIDE DEEP TARGETING AND MANEUVER DATA. THE ASPO HAS SUCCESSFULLY FIELDED MORE THAN 600 SYSTEMS AND IS CONTINUALLY EXPLORING WAYS TO INTEGRATE NEW NATIONAL TECHNOLOGIES/CAPABILITIES INTO ARMY AND OTHER COMPONENT SYSTEMS.

## B. PM AVIATION ROCKETS AND MISSILES

MISSION: PM AVIATION ROCKETS AND MISSILES (PMARM) WAS FORMED WITH THE MERGER OF THE 2.75 INCH ROCKET SYSTEMS PROJECT OFFICE AND THE AIR-TO-GROUND MISSILE SYSTEMS PROJECT OFFICE. PM ARM MANAGES THE 70 MM ROCKET (FORMERLY 2.75 INCH ROCKET), ALL VARIANTS OF THE HELLFIRE MISSILE, AND THE ADVANCED PRECISION KILL WEAPON SYSTEM (APKWS). THE 70 MM IS A CONVENTIONAL AMMUNITION ITEM USED BY ALL U.S. SERVICES AND MANY FOREIGN COUNTRIES. BOTH 70 MM ROCKETS AND HELLFIRE MISSILES ARE THE PRIMARY ARMAMENT FOR THE U.S. ARMY'S AH-64 APACHE, OH-58D KIOWA WARRIOR, AND THE U.S. MARINE CORPS' AH-1W SUPER COBRA HELICOPTERS. APKWS IS CURRENTLY IN DEVELOPMENT AND WILL PROVIDE A GUIDED, LOW COST, LIGHTWEIGHT WEAPON THAT IS EFFECTIVE AGAINST SOFT AND LIGHTLY ARMORED TARGETS TO FILL THE GAP BETWEEN THE 70 MM ROCKET AND THE HELLFIRE MISSILE. THE SYSTEM WILL BE EMPLOYED FROM ALL ARMY AIRCRAFT CURRENTLY USING THE 70 MM ROCKET.

# C. PM CLOSE COMBAT WEAPON SYSTEMS

MISSION: THE MANAGED SYSTEMS OF PM CLOSE COMBAT WEAPON SYSTEMS INCLUDE THE TOW FAMILY OF MISSILE SYSTEMS, THE JAVELIN MAN-PORTABLE ANTI-TANK SYSTEM, AND THE LINE-OF-SIGHT ANTITANK (LOSAT) KINETIC ENERGY MISSILE SYSTEM. THE TOW AND JAVELIN SYSTEMS WERE MAJOR CONTRIBUTORS IN THE SUCCESSFUL OUTCOME OF OPERATION IRAQI FREEDOM. THE LOSAT WILL BE THE ARMY'S FIRST FIELDED KINETIC ENERGY MISSILE SYSTEM AND IS PROVIDING THE TECHNOLOGICAL GROUNDWORK FOR FUTURE KINETIC ENERGY MISSILE SYSTEMS SUCH AS THE COMPACT KINETIC ENERGY MISSILE (CKEM).

## D. PM CRUISE MISSILE DEFENSE SYSTEMS

MISSION: THE SHORT RANGE AIR DEFENSE (SHORAD) AND JOINT LAND ATTACK CRUISE MISSILE DEFENSE ELEVATED NETTED SENSOR SYSTEM (JLENS) PROJECT OFFICES HAVE MERGED AS THE CRUISE MISSILE DEFENSE SYSTEMS PROGRAM OFFICE (PM CMDS), AS DIRECTED BY THE ASSISTANT SECRETARY OF THE ARMY, RESEARCH, DEVELOPMENT, AND ACQUISITION TO SAVE VALUABLE ACQUISITION DOLLARS, INCREASE PROJECT SYNERGY, AND INCREASE OVERALL PROJECT OPERATIONAL AND ADMINISTRATIVE EFFICIENCY. PM CMDS IS THE CENTRALIZED MANAGER OF EXISTING SHORAD AND JLENS PROJECT OFFICE PRODUCTS. THESE INCLUDE MISSILES AND PLATFORMS, SENTINEL RADAR, STINGER BASED SYSTEMS, DIRECTED ENERGY, JLENS RAID, AND JLENS SPIRAL ONE. EACH SYSTEM TRANSITIONING WILL MAINTAIN ITS INDIVIDUAL ACQUISITIONAL CATEGORY BASED ON CURRENT DOLLAR THRESHOLDS.

# XXIII. PEO MISSILES AND SPACE (CONTINUED)

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## E. PM JOINT COMMON MISSILE

MISSION: THE JOINT COMMON MISSILE (JCM) IS AN AIR TO SURFACE WEAPON FOR USE BY JOINT AND ALLIED SERVICE MANNED AND UNMANNED AIRCRAFT TO DESTROY HIGH VALUE STATIONARY, MOVING AND RELOCATABLE LAND AND NAVAL TARGETS. JCM IS A JOINT PROGRAM (DOD PRE-MDAP) WITH THE NAVY AND USMC AND IS A COOPERATIVE DEVELOPMENT PROGRAM WITH THE UNITED KINGDOM. JCM WILL BE USED ON JOINT AND ALLIED SERVICE HELICOPTERS, FIXED WING AIRCRAFT AND UNMANNED AERIAL VEHICLES (UAV) AS AN EVENTUAL REPLACEMENT FOR THE HELLFIRE, TOW AND MAVERICK FAMILIES OF MISSILES. JCM HAS POTENTIAL APPLICATION FOR USE ON ARMY FUTURE FORCE GROUND PLATFORMS. JCM PROVIDES A COMMON, MULTI-MODE WEAPON CAPABLE OF SATISFYING THE NEEDS ACROSS THE JOINT PLATFORMS. IT WILL AUTONOMOUSLY ENGAGE TARGETS USING LINE-OF-SIGHT (LOS) AND BEYOND LINE OF SIGHT (BLOS) ENGAGEMENT CAPABILITIES, INCLUDING PRECISION STRIKE AND FIRE-AND-FORGET TECHNOLOGIES.

## F. PM JOINT TACTICAL GROUND STATION

MISSION: PM JOINT TACTICAL GROUND STATION (PM JTAGS) IS A TRANSPORTABLE INFORMATION PROCESSING SYSTEM THAT SUPPORTS FORWARD-DEPLOYED COMBATANT COMMANDERS WITH EARLY WARNING DATA ON BALLISTIC MISSILE LAUNCHES. THE FIVE PM JTAGS SYSTEMS ARE A KEY PART OF THE U.S. STRATEGIC COMMAND'S (STRATCOM'S) TACTICAL EVENT SYSTEM (TES) AND ARE OPERATED BY JOINT ARMY-NAVY CREWS, PROVIDING CONTINUOUS ALL-WEATHER THREAT MONITORING. AS AN IN-THEATER ASSET, PM JTAGS IS ASSURED DATA RECEIPT FROM SENSORS AND TRANSMITS PROCESSED INFORMATION OVER A VARIETY OF IN-THEATER COMMUNICATIONS ASSETS.

## G. PM LOWER TIER

MISSION: PM LOWER TIER IS COMPRISED OF THE PATRIOT, MEADS AND PAC3 WEAPONS SYSTEMS. THE PATRIOT AIR DEFENSE SYSTEM'S INITIAL MISSION FOCUSED ON AIR DEFENSE RATHER THAN MISSILE DEFENSE, BUT THE CHANGING BATTLEFIELD AND THE INCREASING THREAT FROM BALLISTIC MISSILES SPURRED PATRIOT THROUGH A SUCCESSION OF IMPROVEMENTS AND MODIFICATIONS TO REFOCUS ITS MISSION ON MISSILE DEFENSE. FOLLOWING FURTHER ANALYSIS OF PATRIOT PERFORMANCE, THE PATRIOT SYSTEM UNDERWENT A SERIES OF MODIFICATIONS TO IMPROVE ITS BALLISTIC MISSILE DEFENSE CAPABILITIES. THE IMPROVED SYSTEM, CALLED THE PATRIOT ADVANCED CAPABILITY-3 (PAC-3), IS CURRENTLY IN PRODUCTION AND FIELDING. IN APRIL 2003, THE DEFENSE ACQUISITION BOARD (DAB) CONVENED TO REVIEW THE ARMY'S PROPOSED PLAN FOR COMBINED MANAGEMENT, DEVELOPMENT, AND FIELDING OF THE PATRIOT AND MEADS SYSTEMS WITHIN THE ARMY. THE DAB APPROVED THE ARMY'S PLAN TO PURSUE A COMBINED PROGRAM FOR THE EVOLUTION OF PATRIOT ADVANCED CABABILITY-2 (PAC-2)/GEM CONFIGURED FIRE UNITS TO AN INTEGRATED PAC-3/MEADS FULL CAPABILITY.

# H. PM NON LINE OF SIGHT LAUNCH SYSTEMS

MISSION: THE FUTURE COMBAT SYSTEM NON-LINE OF SIGHT LAUNCH SYSTEM (NLOS-LS) CONSISTS OF A FAMILY OF CONTAINERIZED GUIDED MUNITIONS THAT ARE VERTICALLY LAUNCHED DIRECTLY FROM A HIGHLY DEPLOYABLE CONTAINER LAUNCH UNIT (CLU). EACH CLU IS ENABLED WITH SELF-CONTAINED TECHNICAL FIRE CONTROL/ELECTRONICS/ SOFTWARE FOR REMOTE, UNMANNED OPERATIONS. THE NLOS-LS PERMITS PRECISION FIRE SUPPORT TO THE UNIT OF ACTION AT THE RIGHT TIME AND PLACE IN THE MOST EFFICIENT AND EFFECTIVE MANNER AND IS ONE OF THE PREMIER SYSTEMS FOR NETWORK CENTRIC OPERATIONS AND WARFARE IN THE FUTURE FORCE.

# XXIII. PEO MISSILES AND SPACE (CONTINUED)

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## I. PM PRECISION FIRES ROCKET AND MISSILE SYSTEMS

MISSION: PM PRECISION FIRES ROCKET AND MISSILE SYSTEMS MANAGES THE MULTIPLE LAUNCH ROCKET SYSTEM (MLRS) FAMILY OF LAUNCHERS, INCLUDING THE M270, M270A1 AND THE LIGHTER HIGH MOBILITY ARTILLERY ROCKET SYSTEM, AS WELL AS THE SUITE OF ROCKETS AND MISSILES FOR THE LAUNCHERS. MUNITIONS INCLUDE THE BASIC, EXTENDED RANGE, AND GUIDED ROCKETS, AND THE BLOCK I/IA, BLOCK II AND UNITARY ARMY TACTICAL MISSILE SYSTEMS. VIPER STRIKE IS AN EMERGING SYSTEM, AN INTEGRATION OF HUNTER UAV AND BAT SUBMUNITION.

#### J. SYSTEM OF SYSTEMS DIRECTORATE

MISSION: THE PEO MISSILES AND SPACE IS RESPONDING TO FUTURE NEEDS BY INITIATING AN ORDERLY MIGRATION FROM THE CURRENT SYSTEM-CENTRIC ARCHITECTURE TO A "SYSTEM OF SYSTEMS (SOS)" IN WHICH ARMY COMPONENTS EFFECTIVELY SERVE CRITICAL FUNCTIONS IN FUTURE PLUG-AND-FIGHT, NETWORK-CENTRIC, ARMY/JOINT TASK FORCES. THE MIGRATION FROM THE CURRENT ARCHITECTURE TO A COMPONENT-BASED, NETWORK-CENTRIC ARCHITECTURE WILL BE ACCOMPLISHED IN 3 SPIRAL DEVELOPMENT STEPS OVER THE NEXT 12 YEARS. THE PROJECT AND PRODUCT OFFICES ARE RESPONSIBLE FOR PROGRAM EXECUTION SUPPORTED BY THE SOS PROGRAM DIRECTOR. BY LAW, PROGRAM EXECUTION REMAINS THE PURVIEW OF THE CHARTERED PROGRAM MANAGERS. THE SOS PROGRAM DIRECTOR LEADS THE SOS SYSTEMS ENGINEERING AND INTEGRATION EFFORT SUPPORTED BY THE PROJECT AND PRODUCT OFFICES.

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# XXIV. PEO SIMULATION, TRAINING AND INSTRUMENTATION (STRI)

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**AREAS OF INTEREST:** TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- COMPUTER-DRIVEN COMBAT VEHICLE SIMULATORS
- SYNTHETIC FLIGHT TRAINING SYSTEM SIMULATORS
- GROUND COMBAT VIRTUAL TRAINING DEVICES
- CONSTRUCTIVE SIMULATIONS
- GUNNERY TRAINING SYSTEMS

## A. PM COMBINED ARMS TACTICAL TRAINERS

MISSION: PM COMBINED ARMS TACTICAL TRAINERS (PM CATT) MANAGES THE DEVELOPMENT, ACQUISITION, FIELDING, AND LIFE CYCLE SUPPORT OF THE VIRTUAL SYNTHETIC ENVIRONMENT AND ASSOCIATED TRAINING AIDS, DEVICES, SIMULATORS, AND SIMULATIONS (TADSS) TO SUPPORT INDIVIDUAL, INSTITUTIONAL, AND COLLECTIVE TRAINING.

## **B. PM CONSTRUCTIVE SIMULATION**

MISSION: PM CONSTRUCTIVE SIMULATION (PM CS), IN PARTNERSHIP WITH THE NATIONAL SIMULATION CENTER (NSC), COST EFFECTIVELY DEVELOPS AND SUSTAINS CONSTRUCTIVE SIMULATIONS PRIMARILY SUPPORTING THE ARMY'S COMMAND AND STAFF TRAINING REQUIREMENTS. CONSTRUCTIVE SIMULATIONS ARE CURRENTLY THE MOST EFFECTIVE MEANS TO TRAIN COMMANDERS AND STAFFS OF DIVISION AND LARGER UNITS AND ARE PLAYING AN INCREASING ROLE IN THE TRAINING OF BRIGADE AND SMALLER COMMANDERS AND STAFFS. AS THE ARMY TRANSFORMS TO THE UNIT OF ACTION AND UNIT OF EMPLOYMENT THIS TRAINING VENUE WILL BECOME EVEN MORE IMPORTANT TO BATTLE STAFF TRAINING AND PROTECTION AGAINST DIGITAL SKILL DECAY. LIMITED RESOURCES AND INCREASINGLY LIMITED TIME REINFORCES THE NEED FOR A FAMILY OF SIMULATIONS TAILOR-MADE FOR A GIVEN TRAINING OBJECTIVE ACROSS THE RANGE OF MILITARY OPERATIONS (I.E.; RECEPTION, STAGING, ONWARD MOVEMENT, AND INTEGRATION –RSOI OPERATION, HIGH INTENSITY CONFLICT, AND STABILITY AND SUPPORT OPERATIONS -SASO). THE SIMULATIONS PM CS MANAGES AND DEVELOPS ARE USED BY THE ARMY TO SATISFY, IN PART, ITS STATUTORY TRAINING RESPONSIBILITY. THESE SIMULATIONS AND TOOLS AS THE ARMY CONSTRUCTIVE TRAINING FEDERATION (ACTF) ARE ALSO USED TO TRAIN THE ARMY IN A JOINT SERVICE CONTEXT.

# C. PM FIELD OPERATIONS AND SUPPORT

MISSION: PM FIELD OPERATION AND SUPPORT (PM FIELD OPS) PROVIDES PROGRAM MANAGEMENT AND DIRECTION OF THE WORLDWIDE LIFE CYCLE CONTRACTOR SUPPORT (LCCS) PROGRAM. THIS INCLUDES PLANNING, PROGRAMMING AND BUDGET EXECUTION AS WELL AS AWARDING AND MANAGING COMPETITIVE SERVICES CONTRACTS TO SUPPORT AND OPERATE TRAINING DEVICES, SIMULATOR AND SIMULATIONS (TDSS) DEPLOYED AROUND THE WORLD. TDSS ARE CENTRALLY MANAGED BY DA (DAMOTRS) AND INCLUDE THOSE DEVELOPED BY PEO STRI PMS AND TDSSS DEVELOPED BY WEAPON PLATFORM PMS AND MAJOR ARMY COMMANDS. OPS SUPPORTS TDSS IN THE LIVE, VIRTUAL AND CONSTRUCTIVE DOMAINS AND SUPPORTS PEO STRI PMS WITH ACQUISITION LOGISTICS SUPPORT THROUGHOUT THE DEVELOPMENT PROCESS.

# XXIV. PEO SIMULATION, TRAINING AND INSTRUMENTATION (STRI) (CONTINUED)

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# D. PM FUTURE FORCE (SIMULATION)

MISSION: PM FUTURE FORCE (SIMULATION) [PM FF(S)], WHICH IS THE INTEGRATING AGENT FOR PEO STRI, IS RESPONSIBLE FOR ORCHESTRATING INTEGRATED AND INTEROPERABLE SIMULATION SOLUTIONS. PM FF(S): EXCELS IN PROVIDING THE WARFIGHTER THE BEST POSSIBLE TRAINING SOLUTIONS AND TRAINING ENVIRONMENT SUPPORTING ARMY TRANSFORMATION, CURRENT AND FUTURE FORCES ACROSS THE FULL SPECTRUM OF MILITARY OPERATIONS; DEVELOPS FUTURE COLLABORATIVE TRAINING THROUGH A SEAMLESS JOINT LIVE, VIRTUAL, AND CONSTRUCTIVE TRAINING ENVIRONMENT; LEADS AS THE MATERIAL DEVELOPER OF TRAINING SYSTEMS FOR THE FUTURE COMBAT SYSTEM AND OTHER ARMY FUTURE FORCE TRAINING SYSTEMS; ENSURES ENHANCED WARFIGHTER READINESS AND PROFICIENCY THROUGH MODELING AND SIMULATION (M&S) APPLICATIONS IN TRAINING AND OPERATIONAL UTILIZATION AND REUSE OF COMMON PRODUCT COMPONENTS; AND, PROVIDES THE SOLDIER AND ARMY LEADERS WITH THE RESOURCES TO IMPLEMENT DEVELOPMENTS OF SIMULATION AND MODELING FOR ACQUISITION, REQUIREMENTS, AND TRAINING (SMART) PROCESSES, CAPABILITIES AND SERVICES.

# E. PM INSTRUMENTATION, TARGETS AND THREAT SIMULATORS

MISSION: PM INSTRUMENTATION, TARGETS AND THREAT SIMULATORS: MANAGES THE RESEARCH, DEVELOPMENT, DESIGN, ACQUISITION, FIELDING, MODIFICATION, AND CAPABILITY ACCOUNTING OF MAJOR INSTRUMENTATION, TARGETS, AND THREAT SIMULATORS REQUIRED FOR DEVELOPMENTAL AND OPERATIONAL TEST AND EVALUATION (T&E) AND TRAINING; MANAGES THE CENTRAL TEST AND EVALUATION INVESTMENT PROGRAM (CTEIP) AND RESOURCE ENHANCEMENT PROGRAM (REP) FOR THE ARMY; MANAGES OPERATIONS OF TARGETS FOR T&E AND TRAINING OF ARMY AND FOREIGN MILITARY SALES (FMS) CUSTOMER TROOPS; MANAGES THE ARMY INSTRUMENTATION, TARGETS, AND THREAT SIMULATORS (ITTS) LONG RANGE PLANNING PROCESS; DEVELOPS AND IMPLEMENTS POLICY DIRECTION AND CONTROL OVER FUNDING AND EXECUTION OF MAJOR INSTRUMENTATION, TARGETS AND THREAT SIMULATOR/SIMULATION PROJECTS; AND, SERVES AS THE ARMY'S SINGLE MANAGER FOR ACQUIRING TARGETS, THREAT SIMULATORS/SIMULATIONS, AND MAJOR TEST INSTRUMENTATION.

## F. PM TRAINING DEVICES

MISSION: PM TRAINING DEVISE (PM TRADE) TAKES GREAT PRIDE IN HAVING PROVIDED A WIDE VARIETY OF TRAINING SYSTEMS TO SUPPORT THE SOLDIER IN THE FIELD FOR FIFTY YEARS. OUR LEGACY INCLUDES ARMY STANDARDS SUCH AS MILES, COFT AND FLIGHT/COMBAT MISSION SIMULATORS. PM TRADE DEVELOPED AND FIELDED INSTRUMENTED TRAINING SYSTEMS TO THE NATIONAL TRAINING CENTER AT FORT IRWIN, CALIFORNIA, THE JOINT READINESS TRAINING CENTER AT FORT POLK, LOUISIANA, AND THE COMBAT MANEUVER TRAINING CENTER AT HOHENFELS, GERMANY WHICH ENABLES THEM TO PROVIDE WORLD CLASS TRAINING AND AFTER ACTION REVIEWS FOR THE TRAINING UNITS. CURRENTLY, PM TRADE FOCUSES ON LIVE ENVIRONMENT TRAINING SYSTEMS INCLUDING TRAINING INSTRUMENTATION SYSTEMS TO SUPPORT HOME STATION TRAINING, MILITARY OPERATIONS IN URBAN TERRAIN TRAINING, MANEUVER COMBAT TRAINING CENTER TRAINING, AND DIGITAL RANGES. ADDITIONALLY, PM TRADE PROVIDES THE ARMY'S TACTICAL ENGAGEMENT SIMULATION SYSTEMS AND PRECISION GUNNER SYSTEMS TO SUPPORT ALL ASPECTS OF LIVE TACTICAL ENGAGEMENT SIMULATIONS, GENERIC TRAINING THREAT SIMULATORS AND TRAINING PRODUCTS TO SUPPORT DIGITIZED FORCE TRAINING.

# XXV. PEO SOLDIER

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# A. PM SOLDIER EQUIPMENT

MISSION: PM SOLDIER EQUIPMENT ENHANCES LETHALITY, SURVIVABILITY, MOBILITY, AND SUSTAINMENT FOR ALL SOLDIERS, AND IMPROVES THE HEALTH, SAFETY, AND COMFORT OF SOLDIERS IN BOTH FIELD AND GARRISON ENVIRONMENTS THROUGH A VARIETY OF INDIVIDUAL EQUIPMENT AND CLOTHING ITEMS. THESE ITEMS RANGE FROM HIGHLY ADVANCED TECHNOLOGY THAT ENABLES THE SOLDIER TO PERFORM BOTH DAY AND NIGHT OPERATIONS TO FORMAL CLOTHING AND ACCESSORIES THAT PROMOTE A HIGHLY PROFESSIONAL APPEARANCE.

# AREAS OF INTEREST: TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- MAN-PORTABLE LASER/LIGHT TECHNOLOGIES FOR POINTING, ILLUMINATION, RANGE-FINDING, AND TARGET DESIGNATION
- NIGHT VISION DEVICES
- BALLISTIC AND FRAGMENTATION PROTECTION
- TECHNOLOGICALLY ADVANCED TACTICAL AND ENVIRONMENTAL PROTECTIVE CLOTHING
- INDIVIDUAL CHEMICAL PROTECTIVE GEAR
- PERSONNEL AIRDROP EQUIPMENT

## B. PM SOLDIER WARRIOR

MISSION: PM SOLDIER WARRIOR SUPPORTS SOLDIERS BY MAKING THE SOLDIER-AS-A-SYSTEM CONCEPT A REALITY THROUGH THE ACQUISITION OF MODULAR, INTEGRATED SOLDIER SYSTEMS DESIGNED TO IMPROVE BATTLE COMMAND AND TACTICAL AWARENESS, LETHALITY, SURVIVABILITY, AND MOBILITY AND SUSTAINMENT.

## AREAS OF INTEREST: TECHNOLOGIES ASSOCIATED WITH THE FOLLOWING:

- GROUND SOLDIER SYSTEMS
- AIR SOLDIER SYSTEMS
- MOUNTED SOLDIER SYSTEMS

# C. PM SOLDIER WEAPONS

MISSION: PM SOLDIER WEAPONS PROVIDES UNSURPASSED SUPPORT TO SOLDIERS THROUGH THE ENHANCEMENT OF CURRENT WEAPON SYSTEMS AND THE DEVELOPMENT AND PRODUCTION OF FUTURE WEAPON SYSTEMS, AMMUNITION, AND ASSOCIATED TARGET ACQUISITION AND FIRE CONTROL PRODUCTS. PM SOLDIER WEAPONS OVERSEES CURRENT INDIVIDUAL AND CREW SERVED WEAPON SYSTEMS AND NEXT-GENERATION WEAPONS PROGRAMS.

- XM8 MODULAR ASSAULT WEAPON SYSTEM
- XM25 AIRBURST WEAPON SYSTEM
- XM26 MODULAR ASSAULT SHOTGUN SYSTEM
- XM307 ADVANCED CREW SERVED WEAPON (25MM)
- XM312 ADVANCED CREW SERVED WEAPON (LIGHTWEIGHT .50 CALIBER)
- M107 LONG RANGE SNIPER RIFLE
- XM101 COMMON REMOTELY OPERATED WEAPON STATION